UAB Catalog
2008-2009

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Produced through UAB Office of Academic Programs and Policy.

UAB Catalog of Undergraduate Programs

2008-2009

This catalog contains information on UAB's academic programs offered in the following schools:

- Arts and Humanities
- Business
- Education
- Engineering
- Health Professions
- Natural Sciences and Mathematics
- Nursing
- Social and Behavioral Sciences

Accreditation

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

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

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Academic Calendar 2008-2009

Fall 2008

March 31 - April 4	Early Assigned Time Registration
April 7 - June 1	Early Fall Registration
July 28 - August 1	Assigned Time Registration
August 4 - August 18	Open Registration
August 18	Book Discussion
August 19	Classes Begin
August 19	Financial Aid Disbursement
August 19 - August 26	Registration After Classes Begin
August 26	Last Day to Drop/Add
August 26	Last Day to Submit Undergraduate Application for Degree
August 28	First Payment Deadline
September 1	Labor Day Holiday
September 30	Final Payment Deadline
October 17	Last Day to Withdraw (Undergraduate)
November 26	No Classes Held
November 27 - November 30	Thanksgiving Holidays
December 3	Last Day of Class
December 3	Last Day to Withdraw (Graduate)
December 4	Weather Make-up Day
December 5 - December 11	Final Exams
December 13	Commencement
December 13	Diploma Date
December 16	Grades Available Online

Spring 2009

November 3 - November 7	Assigned Time Registration
November 10 - January 6	Open Registration
January 7	Classes Begin
January 14	Last Day to Drop/Add
January 14	Last Day to Submit Undergraduate Application for Degree
January 19	Martin Luther King Holiday
March 6	Last Day to Withdraw (Undergraduate)
March 8 - March 14	Spring Break
April 27	Last Day of Class
April 27	Last Day to Withdraw (Graduate)
April 28 - April 29	Weather Make-up Day
April 30 - May 6	Final Exams
May 9	Commencement
May 9	Diploma Date

Summer 12-Week Session 2009

May 11	Classes Begin
August 8	Diploma Date

Summer May Session 2009

May 11	Classes Begin
May 29	Final Exams
August 8	Diploma Date

Summer 9-Week Session 2009

June 1	Classes Begin
July 31 - August 6	Final Exams
August 8	Diploma Date

Summer A Session 2009

August 8	Diploma Date

Summer B Session 2009

August 8	Diploma Date

Academic Calendar

General Information

In a brief period of time, 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. Annual UAB enrollment exceeds 16,000 students. Classes are offered seven days a week.

UAB is situated near downtown Birmingham and the historic Five Points South district. The campus stretches across 70 square blocks and occupies more than 100 primary buildings. UAB is the city of Birmingham's largest employer and the second largest in the state, with an estimated annual operating budget of more than $1.7 billion [budget, including hospital] and with more than 18,000 employees, including faculty, staff, and support personnel.

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 related 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 attracts more than $350 million in training and research grants each year. According to the Carnegie Classification of Institutions of Higher Education, UAB is a Doctoral/Research-Extensive University.

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. Each spring the city of Birmingham hosts "City Stages," a three-day musical extravaganza staged in the heart of the city, featuring both national and local artists and performers.

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 a state-of-the-art facility which now houses a 1,400-seat concert hall, a 350-seat theater, and a 150-seat recital hall, and eventually will house a fine arts computer center, a band room, electronic music laboratories, practice rooms, and rehearsal hall. The Center regularly schedules nationally and internationally known artists and orchestras and features faculty and student productions and concerts.

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 honoraries, more than 100 professional clubs and interest groups, cheerleaders, the Golden Girls dance team, intramural and recreational sports, and an established student government organization. Interested students can also participate in producing any of three student publications: Kaleidoscope, Phoenix, and Aura.

Students meet to enjoy recreational activities, lectures, and films at the Hill University Center. The center also provides meeting space for organizations and a cafeteria. Hill University Center houses the Student Life offices, the Undergraduate Admissions Office, the Office of Registration and Academic Records, the Graduate School, the Financial Aid office, the Women's Center, the Center for Counseling and Wellness, the Division of General Studies, the Blazer Bookstore, and the student publications office.

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

Schools, Degrees, and Majors

This catalog contains information about programs in the Schools of Arts and Humanities, Business, Education, Engineering, Health Related Professions, Natural Sciences and Mathematics, and Social and Behavioral Sciences. Information on the Graduate School and the Schools of Dentistry, 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 Schools of Arts and Humanities, Business, Education, Engineering, Natural Sciences and Mathematics, or Social and Behavioral Sciences will find complete information in this catalog beginning on page 81.

School of Arts and Humanities

Bachelor of Arts

Art, Communication Studies, English, Foreign Languages, Music, Philosophy, Theatre

Bachelor of Fine Arts

Art

Master of Arts
English, Art History (1), Communication Management

School of Business

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

Master of Accounting

Master of Business Administration

Doctor of Philosophy
Administration/Health Services

School of Education

Bachelor of Science
Early Childhood Education, Elementary Education, Health Education, High School Education, Physical Education, Special Education

Master of Arts in Education
Arts Education, Early Childhood Education, Educational Leadership, Elementary Education, Health Education, High School Education, Physical Education, 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)

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, Materials Engineering, Mechanical Engineering

Doctor of Philosophy
Biomedical Engineering, Civil Engineering (5), Computer Engineering (6), Electrical Engineering (3), Environmental Health Engineering, Materials Engineering (1), Mechanical Engineering (3), Materials Science (4)

School of Natural Sciences and Mathematics

Bachelor of Science
Biology, Chemistry, Computer and Information Sciences, Mathematics, Natural Science, Physics

Master of Science
Biology, Chemistry, Computer and Information Sciences, Mathematics, Physics

(1) Jointly with the University of Alabama, (2) Certification program, (3) Cooperatively with the University of Alabama and the University of Alabama in Huntsville, (4) Jointly with the University of Alabama and the and the University of Alabama in Huntsville, (5) Jointly with the University of Alabama in Huntsville, (6) Shared with the University of Alabama in Huntsville, (7) Cooperatively with the University of Alabama

Doctor of Philosophy
Applied Mathematics(4), Biology, Chemistry, Computer and Information Sciences, Physics

School of Social and Behavioral Sciences

Bachelor of Arts
Anthropology, Economics, History, International Studies, Political Science, Sociology

Bachelor of Science
Criminal Justice, Psychology, Social Work

Master of Arts
Anthropology (7), History, Sociology, Psychology

Master of Public Administration

Master of Science in Criminal Justice

Master of Science in Forensic Science
Computer Forensics (2)

Doctor of Philosophy
Psychology, Medical Sociology

(1) Jointly with the University of Alabama, (2) Certification program, (3) Cooperatively with the University of Alabama and the University of Alabama in Huntsville, (4) Jointly with the University of Alabama and the and the University of Alabama in Huntsville, (5) Jointly with the University of Alabama in Huntsville, (6) Shared with the University of Alabama in Huntsville, (7) Cooperatively with the University of Alabama

School of Arts and Humanities, Natural Sciences and Mathematics, and Social and Behavioral Sciences

Bachelor of Arts
African American Studies

Additional Programs

Nursing and Health Professions

Students working toward baccalaureate degrees with majors in the Schools of Nursing or Health Related Professions 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.

University Honors Program

For students who desire an advanced baccalaureate program, UAB provides an opportunity for independent research, close contact with faculty and community members, and innovative learning opportunities within an interdisciplinary context. For complete information on the Honors Program, as well as honors tracks in specific disciplines.

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.

Student Life Activities and Organizations

Student life at UAB offers many activities and organizations for students. Each individual will find something uniquely suited to his or her own tastes. Events range from relaxing at free movies or comedy shows to the rigors of rappelling down a cliff or hiking the Grand Canyon. Each academic term brings new events, new adventures, and opportunities to make new friends, learn, socialize, relax, and have a good time.

Funded in part by student service fees, special activities range from those found on most campuses to some unique to UAB. Many enhance students' academic experiences; others enrich their social life. Regardless of the activity, students are encouraged to get involved.

This section of the catalog contains an alphabetical list of many of the organizations and activities available to students. For a complete list, consult the student handbook, Direction, available at www.students.uab.edu or pick up a printed copy at the Information Desk in Hill University Center, or call the Office of Student Life, Telephone (205) 934-4175.

Ambassadors

These energetic, dedicated, and service-oriented students are the official hosts and hostesses for UAB. Ambassadors represent the University at most UAB functions and events including new student orientation, athletic events, The Alys Robinson Stephens Center, and much more. They are selected during the spring semester and are awarded partial scholarships. For more information, come by the Office of Student Leadership, Room 440, Hill University Center, (205) 934-8020.

Athletic Team Support Groups

Blazer support groups include the UAB Golden Girls, Cheerleaders (co-ed and all girl), mascot, 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 a committee composed of UAB staff, students, and professionals in the field selects members of each group based on performance and interviews. For more information on cheerleaders, mascot, and Golden Girls, contact the Athletic Team Support Office, Room 132, Hill University Center, (205) 934-8224. For information on the Blazer Band and the UAB Marching Blazers, call the Department of Music, (205) 934-7375.

Black Student Awareness Committee

The Black Student Awareness Committee is a programming committee created to celebrate and commemorate the accomplishments of African Americans. The committee sponsors year-round activities such as Kwanzaa, Malcolm X, and Martin Luther King Day Celebrations. Other programs include Black History Month festivities, National Women's Month observance, and the annual Camille Armstrong Scholarship Greek Show. For more information, come by the Student Programs Office, Room 136, Hill University Center, (205) 934-8225.

Blaze Radio

Tap into the UAB groove 24 hours a day with Blazeradio, the student Web radio station. Tune in online for the newest alternative, hip hop, jazz, dance, country, and more spun by UAB DJs. Or check out the news, sports, and talk shows.

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.

To start the tunes, click over to the official BlazeRadio site at www.uab.edu/blazeradio or stop by the studio in Hill University Center Room 151, 975-WBLZ (9259).

Campus Recreation

The Campus Recreation Center offers students and a limited number of faculty, staff and alumni access to a state-of-the-art exercise and recreation facility. The 150,000-square-foot facility features an indoor lap pool, basketball, racquetball and multipurpose courts, a climbing wall, cardiovascular fitness areas, weight-lifting areas and an indoor running track. The facility also offers a variety of group fitness classes including yoga, Pilates, Spinning®, and aquatics. Patrons can take advantage of the many amenities including Wellness Services, offering nutritional counseling, personal fitness assessments, and personal trainers. The Center is located at 1501 University Boulevard across from the Hill University Center.

Intramural Sports: Team sports including flag football, soccer, basketball and softball are offered in league formats during each semester. Special events including individual competitions such as billiards, tennis, and golf are also offered throughout the year as one-day or self-paced competitions. The intramural sports program employs more than 50 students a semester to work as sports officials, scorekeepers, and event supervisors. No prior experience is required; training is provided to all interested participants.

Outdoor Pursuits: A 35-foot climbing wall with a variety of routes is available for all climbing levels. The rental center offers a variety of equipment for students planning to make their own adventure. The Trip Series offers outdoor excursions to some of the United States' most beautiful locations, from the Southeast to the Southwest, the Carolinas to the Rockies, and North Alabama to Northwest Florida.

Ufit: The packed schedule features group fitness classes daily, as many as 50 sessions a week – including aerobics, aquatics, Spinning®, Pilates, yoga, and more – at convenient times and varying intensities.

Entertainment Committee

The UAB Entertainment Committee is made up of student volunteers who assist in choosing artists, securing contracts, hosting entertainers, running technical equipment, and promoting and producing campus shows. No experience is necessary to join this committee. For more information, come by the Office of Student Programs, Room 136, Hill University Center, Telephone (205) 934-8225.

Fraternities and Sororities

Fraternities and Sororities are represented in every facet of college life and are a driving force in campus activities, academic honoraries, special interest groups, and community service activities. Motivation to be more involved originates from the sisterhood and brotherhood felt within the organization. There are sixteen Greek organizations on campus. Alpha Gamma Delta, Alpha Xi Delta, Alpha Omicron Pi, and Delta Gamma make up the Pan-Hellenic Council, while the National Pan-Hellenic Council encompasses Alpha Kappa Alpha, Sigma Gamma Rho, Zeta Phi Beta, Alpha Phi Alpha, Kappa Alpha Psi, Phi Beta Sigma, and Omega Psi Phi. The Interfraternity Council members include Alpha Tau Omega, Delta Sigma Phi, Lambda Chi Alpha, Pi Kappa Phi, and Tau Kappa Epsilon. For more information, come by the Office of Student Leadership, Room 440, Hill University Center, (205) 934-8020.

General/Professional Interest Organizations

UAB recognizes many organizations concerned with the academic 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 Leadership, Room 440, Hill University Center, Telephone (205) 934-8020.

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, come by the Student Programs Office, Room 136, Hill University Center, (205) 934-8225.

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 Leadership, Room 440, Hill University Center, (205) 934-8020.

Interculture

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. Past events have included Mardi Gras, Chinese New Year, Australia Day, and Cinco de Mayo. For more information, come by the Student Programs Office, Room 136, Hill University Center, (205) 934-8225.

Leadership

The Office of Student Leadership houses the Leadership and Service Council. It and Service Council offers creative opportunities to learn leadership skills for problem solving in student organizations and for personal improvement. Retreats, programs, and service learning are provided throughout the year to any UAB student. Each year, the program awards two Emerging Leaders Scholarships to students with a strong potential for leadership. The program also hosts The LeaderShape Institute to learn about individual leadership style. The program brings nationally recognized speakers to campus to discuss issues facing students. For more information, come by the Office of Student Leadership, Room 440, Hill University Center, (205) 934-8020.

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 Ralph Nader, John Walsh, Jeff Corwin, Harrison Schmitt, and Michael Shermer. For more information, come by the Office of Student Programs, Room 136, Hill University Center, (205) 934-8225.

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, prospective contestants and committee members should come by the Student Programs Office, Room 136, Hill University Center, (205) 934-8225.

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.

Choral Groups

Chamber Singers

This advanced choral group is limited to sixteen singers by audition only. It performs a variety of choral music representing different periods and styles.

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, faculty, staff, and members of the community.

Gospel Choir

The newest UAB choir, this ensemble performs traditional and contemporary gospel choral music. It is open to all majors and community members. 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.

Instrumental Groups

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.

Jazz Ensemble

Instrumentalists can further their musical knowledge and creative skills by performing classic and contemporary jazz, swing, and rhythm and blues.

UAB Marching Blazers

The UAB Marching Blazers is part of the university band program supporting UAB Blazer football. The Marching Blazers performs with an up-tempo style 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).

Computer Music Ensemble

The Computer Music Ensemble performs computer and other electronically generated music of various styles, including classical, pop, jazz, new age, and minimalist. This ensemble is open to students enrolled in the Music Technology program and/or other students skilled in music technology.

Percussion Ensemble

This group performs original and arranged works of concert and marching percussion literature. The styles of music performed vary in range. The Percussion Ensemble is open to all majors.

Wind Ensemble

As part of the university band program, the Wind Ensemble performs the finest concert band literature in campus concerts and selected special performances.

Springfest

Springfest is an all-day celebration that includes a barbecue, music, and carnival rides. Springfest provides a day filled with fun, laughter, and relaxation for all associated with UAB and their families. Students on the committee help choose the bands, arrange the carnival, and choose the festival theme. For more information, come by the Student Programs Office, Room 136, Hill University Center, (205) 934-8225.

Student Publications

There are three award-winning student-run and student-edited publications that serve the UAB student body. Kaleidoscope, the weekly student newspaper, has a circulation of 8,000 and a readership of more than 25,000. Aura, the literary/arts magazine, prints poetry, photography, short stories, and artwork submitted by students. Phoenix, the student life online magazine, features nonfiction stories of interest to UAB students. For a view of the online version point your web browser to www.uab.edu/kscope. For more information, contact the Student Publications Office, Room 135, Hill University Center, Telephone (205) 934-3354.

Student 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, come by the Student Programs Office, Room 136, Hill University Center, (205) 934-8225.

Super Jazz/Big Band

This activity brings to campus the best of Birmingham's professional jazz musicians to perform big band music several times each year. For more information, contact the Department of Music, (205) 934-7375.

Theatre Activities

UAB Department of Theatre

Productions by the UAB Department of Theatre, presented in the new Morris K. Sirote Theatre and the Odess Theatre, are open to students of all majors for credit or as an extracurricular activity. For further information, contact the Department of Theatre, (205) 934-3236.

UAB TrailBlazers

The UAB TrailBlazers is a student organization that assists the Office of Undergraduate Admissions by providing in-depth information about UAB to prospective students and their families. Chosen annually, TrailBlazers strive to ensure that first-year students know about the diverse academic, cultural, and extracurricular interests found within the UAB community. Forty highly motivated, energetic, and dedicated students are chosen to represent the Office of Undergraduate Admissions at high school visits, special on-campus recruitment events, and campus tours. For more information, contact the Office of Undergraduate Admissions, Room 260, Hill University Center, (205) 934-8142.

Undergraduate Student Government Association (USGA)

The Undergraduate Student Government Association provides programs and services for undergraduate students in the Schools of Arts and Humanities, Business, Education, Engineering, Natural Sciences and Mathematics, and Social and Behavioral Sciences, and the Division of General Studies. The USGA also represents student issues, concerns, and views to the administration. For more information, come by the Undergraduate Student Government Association Office, Room 440, Hill University Center, (205) 934-8020.

Volunteer Program

The Volunteer Program offers students an opportunity to make a difference for those in need in the Birmingham community. A volunteer fair is held twice a year in the Hill University Center to give students an opportunity to meet with local volunteer agencies. Students may be part of the Volunteer Committee, which helps organize volunteer programs and recruit other students. Alternative Spring Break and the Summer Service Weekend allow a group of students to travel and provide a service to a community chosen by the Volunteer Program Coordinator. The Volunteer Program also encourages students to participate in Into the Streets, an outreach day focused on the immediate community around UAB. For more information, contact the Office of Student Leadership, Room 440, Hill University Center, (205) 934-8020.

Student Services & Facilities

The following is an alphabetical list of facilities and services available to UAB students. For further information on these and other facilities and activities, contact the UAB Information Center (see "Information Center" below) or refer to the UAB student handbook, Direction, available in the Office of Student Media, Suite 135, Hill University Center, at Students.uab.edu, and on 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.

School/Area/Advisor	Telephone
Arts and Humanities	
Ms. Katie Dunagan (Sophomores, Juniors)	934-2290
Ms. J. Ford-Freeman (Freshmen, Sophomores)	934-2290
Mr. Chris Lee (Seniors, Post-Baccalaureate)	934-2290
Business	
Ms. Wendy England (A-G)	934-8813
Ms. Kristin Johnston-Chapleau (0-Z)	934-8813
Ms. Jessica Smith (H-N)	934-8813
Industrial Distribution	
Ms. K. Craig	975-5810
Education	
Ms. Samara Massey (Prospective Alternative Master's)	934-7530
Ms. Abby Westerhold (Undergraduate)	934-7530
Engineering	
Fewer than 50 hours (Assigned by Last Name)	934-8400 or 934-8410
More 64 hours contact department	
Biomedical Engineering	934-8420
Civil, Construction, and Environmental	934-8430
Electrical and Computer	934-8440
Materials	934-8450
Mechanical	934-8460
General Studies	
Undeclared	
Mr. Kevin Jerrolds	934-6135
Ms. Holley Radford	934-6135
Pre-Nursing	
Ms. Sharon Jacobsen (Seniors and Second Degree)	934-6135
Ms. Kristi Kline Smith (Freshmen, Sophomores, & Juniors M– Z)	934-6135
Ms. Brigette Weatherby (Freshmen, Sophomores, & Juniors A-L)	934-6135
Pre-health Majors: Pre-medicine, Pre-dentistry, and Pre-optometry	
Ms. Linda Luck (Juniors, Seniors, and all others)	934-6135
Ms. Cheryl Moser (Freshmen and Sophomores)	934-6135
Health Professions	
Mr. B. Harris	934-5963
Ms. E. Robinowich	935-2925

Natural Sciences and Mathematics

Biology, Natural Science, or Undeclared

Ms. Ovuke' Emonina	975-4632
Mr. Nate Wade	934-8321
Ms. Nicole Gravitt	934-6025

Chemistry

Mr. Jamie Grimes	934-7529

Computer and Information Sciences

Mr. John Faulkner	934-2213

Mathematics

Dr. Jeanne Hutchison	934-2154

Physics

Ms. Nicole Gravitt	934-6025

Social and Behavioral Sciences

Mr. K. Hubbard (Freshmen and Sophomores)	934-8689
Ms. D. Littleton (Juniors and Seniors)	934-7126

Psychology

Ms. K. Klyce (Freshmen, Sophomores, and Juniors)	975-9566
Dr. E. Gampher	934-8409

Pre-law

Mr. John Grimes	934-2069

ROTC

Army

Major Savage	934-8749 or 934-7215

TRIO Academic Services

Ms. T. Lyons	934-2729

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.

Bookstore

The Blazer Bookstore is located on the first floor of the Hill University Center. The bookstore posts official lists of UAB courses and stocks the textbooks and all other items necessary for successful UAB coursework. 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. The UAB Ticket Office is located inside the Blazer Bookstore. Contact the Blazer Bookstore at (205) 934-4686.8289 or visit the store online at www.uab.edu/bookstore.

CampusCard

The UAB CampusCard serves as the official student ID and offers access to a variety of services and resources on campus. Students use their CampusCard to enter residence halls and the Campus Recreation Center, attend UAB athletic and cultural events and check out materials from UAB libraries. With the CampusCard, students can enjoy discounts on software purchases at the Blazer Bookstore and tickets to a variety of on and off-campus events through the UAB ticket office. The CampusCard also functions as a debit card, allowing students to make purchases at the Blazer Bookstore, on-campus dining facilities and a variety of other locations. The CampusCard office is located in Room 158 in the Hill University Center. A photo ID is required to have a

CampusCard made. Further information can be obtained at www.uab.edu/campuscard, or by contacting the CampusCard staff at campuscard@uab.edu or (205) 996-6273.

Career Services

UAB Career Services is a comprehensive career counseling resource center dedicated to empowering students as active participants in their own career development. Programs and services include individual career counseling and consultation, a library containing information on jobs, salaries and career paths, literature from employers, and graduate school catalogs, workshops and seminars.

Experimental education opportunities are available through Career Services to help students define their educational goals and prepare for their career by exploring the realities of the working world. Students may choose Cooperative Education (Co-op), internships, job shadowing, volunteering and mentoring. The mentoring program pairs upper level students with alumni in a variety of professions.

Career Services provides employment assistance for students seeking part-time jobs while attending UAB. Graduating students and UAB alumni can receive assistance in their job searches through personal job search strategy consultations, job listings, resume referral and credential file services, on-campus interviews, and job fairs. For information and career assistance, contact Career Services central office, Room 532, Hill University Center, (205) 934-4324. The School of Business Career Services Office, a branch office, is located in Room 303, Business-Engineering Complex, (205) 934-9202.

Counseling and Wellness

The UAB Counseling & Wellness Center assists in developing students' potential in physical, academic, spiritual, psychosocial, emotional, and vocational areas. Confidential personal counseling is available to all currently registered UAB students at no cost. For more information, contact the Counseling & Wellness Center, Room 150, Holley-Mears Building, 924 19th Street South, (205) 934-5816.

Counseling services are also provided by the UAB Women's Center.

Disability Support Services

Disability Support Services (DSS), located in 516 Hill University Center, 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 that will enable all students to have access to UAB programs and services, and to have students' academic performance evaluated, to the extent possible, without the limiting effects of a disability.

For more information, contact Disability Support Services at (205) 934-4205 (voice) or 934-4248 (TTY) or http://www.main.uab.edu/show.asp?durki=4511. E-mail contacts are welcome at dss@uab.edu.

Food Services

Conveniently located within walking distance of classes, residence halls, many off-campus apartments, and the Campus Recreation Center, UAB Campus Restaurants offer delicious food at a great value plus an inviting atmosphere where you can hang out with friends. Just off the center's main lobby you'll also discover Jazzman's Coffee and Freshens, with your favorite hot and cold drinks, frozen yogurt, and more. Café a la Carte located in the Business/Engineering Atrium offers prepared sandwiches, salads and snacks for those on the run.

The Commons on the Green offers a variety of tempting choices—from classic and international cuisine to pizza, grill and deli foods, soup and salad, and more. Dinner will features all-you-can-eat options in a restaurant atmosphere. Breakfast and lunch will be served a la carte on weekdays, allowing you to choose what you wish and pay for what you eat. A convenience store and diner serving made-to-order grill items including omelets, sandwiches, and burgers is open afternoons and late nights seven days a week.

For more information about Campus Restaurants, please stop by the UAB Campus Restaurants office located in the Blazer Café on the first floor of the Hill University Center (HUC), or call (205) 934-8045. You can also visit us online at www.uabdining.com. For complete up-to-date information regarding meal plans, visit the UAB CampusCard website at www.uab.edu/campuscard.

Health Plan

A voluntary, comprehensive plan of accident and illness insurance is available to full- or part-time undergraduate and part-time graduate students who meet eligibility requirements. The plan may be extended to cover the student's spouse and dependents for an additional premium. In addition to accident and illness insurance, an optional outpatient service plan is also available for students. The Medical Center Student Health Service, located at 930 20th Street South, Room 221, provides outpatient service to participants under this plan. For further information concerning both the accident and illness insurance and the optional outpatient service plan, call the Medical Center Student Health Service at (205) 934-3580.

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 on the first floor of the Hill University Center, 1400 University Boulevard. For additional information, call (205) 934-8000, or see the Web page at http://www.uab.edu/hucops.

International Programs (Study Abroad and Exchanges)

UAB International Programs (Study Abroad and Exchanges) offers opportunities for international study either through UAB or non-UAB programs. UAB International Programs 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, enrollment circumstances, possible credits, and deadlines vary according to the program. Contact the UAB Study Abroad Program, (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.

UAB International Programs located in the Hill University Center at 1400 University Boulevard is also responsible for oversight over 70 international university and medical exchanges in about 40 countries around the world. Faculty can also participate in opportunities abroad through Faculty Development seminars offered by organizations outside UAB. For further information, visit our Web site at www.studyabroad.app.uab.edu.

International Scholar and Student Services

International Scholar and Student Services is dedicated to providing quality services, programs, and activities that enhance cultural awareness, expand international educational and research opportunities, and provide global perspectives for students, faculty, and staff. International Scholar and Student Services serves as a collaborative community resource that facilitates, promotes, and strengthens international understanding.

Services include immigration and nonresident alien tax advising, orientation, seminars on legal issues, and cultural programs and activities. International Scholar and Student Services also operates the Smolian International House and the Samuel Ullman Museum. For additional information, call (205) 934-3328 or visit our Web page at http://www.uab.edu/isss.

Smolian International House

The Bertha and Joseph Smolian International House, 1600 10th Avenue South, offers services and activities for international students and scholars and their families. 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 temporary lodging for foreign nationals, meeting space for groups with an international purpose, two kitchens, a library, a lounge with satellite television, and other amenities.

The I-House hosts a number of special annual events including the Fall Barbecue, International Festival, and Thanksgiving Dinner. Regularly scheduled programs include conversational English classes, Friendship Partners, the International Women's Group, and cultural evenings. For additional information or a schedule of activities, call (205) 934-1025.

Mervyn H. Sterne Library

The Mervyn H. Sterne Library houses a collection of more than a million items selected to support current teaching and research at UAB. In addition to books and periodical subscriptions, the collection consists of microforms and other print and non-print materials. The library also provides electronic access to the contents of over 10,000 journals, 33,000 electronic books and to the full text of 2,000 journals. Study areas and photocopying machines are located throughout the library. The main collection is housed 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 provides a special collection area, seminar rooms, group study rooms, lockable study carrels, and seating for 1,000 users. The on-line catalog provides rapid access to the collection and to other major library collections in Alabama.

Reference services are provided by subject-specialist librarians. An information desk and a reference desk are staffed to assist patrons in identifying and locating materials and information. Reference services include the use of indexes and abstracts, computerized database searching, interlibrary loans, and government documents. The User Services Department, through its automated circulation system, tracks materials continuously and can determine the location or status of a book. The Reserve Desk circulates high-use materials placed on reserve by instructors.

The Educational Technology Services Department (ETS) is the media center for Sterne Library. Located in the Education Building, ETS houses and circulates audiovisual equipment to classrooms. ETS also provides services to students and faculty using ETS viewing and computer classrooms. Viewing rooms, a listening room, and individual carrels are available for groups and individuals to listen to or view non-print media. ETS also houses the Student Computing Center, which includes 50 computers. Access to the computers is available to anyone with a UAB Blazer ID and password. Student assistants help with hardware problems and provide

limited software assistance.

Through an inter-institutional borrowing agreement, 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 Information Desk or at the Circulation Desk in the lobby area. Telephone (205) 934-6364 (Reference Services), (205) 934-4338 (User Services), and (205) 934-2379 (Educational Technology Services). Library home page: http://www.mhsl.uab.edu.

Parking

All students who desire to park in UAB student parking facilities must purchase a permit from Parking and Transportation Services. These 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, (205) 934-3513, for details, or go on-line at www.parking.uab.edu.

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.

For additional information and a campus parking map, contact UAB Parking and Transportation Services, 608 Eighth Street South, Telephone (205) 934-3513, E-mail: park@its.uab.edu, Website: www.parking.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.

Outdoor Facilities

Tennis Courts

UAB maintains 11 lighted tennis courts on campus at the 800 block of 11th Street South. These courts are available on a round-the-clock basis. During the winter months, tennis court lights are not turned on at night.

Intramural and Recreation Fields

West Campus Field

This enclosed, lighted field is located at 11th Street and 9th Avenue South. This area is scheduled through the Office of Campus Recreation and is used primarily for intramural flag football, soccer, and softball. The intercollegiate soccer teams practice and play home matches here as well.

Dowdy Field

This enclosed, lighted field is located at 11th Street South and University Boulevard. The field is scheduled through the Office of Campus Recreation and is used for intramural soccer, softball, and ultimate frisbee. The intercollegiate football team practices here as well.

Track Field

Also enclosed and lighted, this field covers the entire block of 12th Street and 6th Avenue South. This field primarily serves the Blazer football team practices, intramural flag football, ultimate frisbee practices, and physical education classes. It is surrounded by a quarter-mile, synthetic running track.

For more information on intramural sports or the use of these fields, call (205) 934-8224, or visit Room 220 of the Campus Recreation Center.

Placement Test

The Office of Academic Programs and Policy provides individual placement testing in English, mathematics, physics, and foreign languages. Group testing is also available at times and locations listed each term in the UAB Class Schedule. For further information, contact the Testing Office, Hill University Center, room 470, (205) 934-5503.

Retention Programs

The Office of Student Retention Programs helps students to improve the quality of their undergraduate experience and strives to retain them through graduation. The office provides an array of programs and services, which includes a freshman success course (UNIV 105), student success seminars, and a retention program for minority scholars. The programs and services are designed to help students ease their transition to college, achieve their goals, and prepare for the next phases of their lives. Other assistance includes graduate/ professional preparation, which provides books, flyers, and other materials about graduate programs and entrance examinations, and information about summer internships at UAB and other schools. For more information, contact the Office of Student Retention Programs, Room 524, Hill University Center, Telephone (205) 934-8804, Electronic mail studentretention@uab.edu, or read about our programs and services on the UAB website, www.uab.edu, and then click Students.uab.edu.

Student Housing and Residential Life

Student Housing facilities include a traditional 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, and the Medical Center.

Student Housing is limited to 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 or nine credit hours as a graduate, each term. The summer term is treated under a separate contract. The student 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 professional staff and student leaders within the residence halls. The Residential Life Program consists of recreational, educational, and social events based on the needs and interests of the residents. In addition to planning this program, trained staff members are available to answer questions or help residents with personal or academic problems.

Sophomore, junior, senior, graduate, and professional students are eligible for single-occupancy apartments. Only a very limited number of single occupancy apartments are allocated each semester due to the high demand for housing on campus. Freshmen must share an apartment with a roommate. Except for married students, only roommates of the same gender are permitted. Roommate requests must be mutual in order to be considered, and applications for Student Housing should be mailed 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 from the Department of Student Housing and Residential Life. Rates include utilities and cable television in all residence halls, and high speed internet connections (ResNet) in Denman, Camp, Rast, and Blount 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. Application should be made to the Department of Student Housing and Residential Life, 1604 9th Avenue South, Birmingham, AL 35294-1230, Telephone (205) 934-2092. Students are encouraged to apply for housing on line and browse the housing information found at students.uab.edu housing. A $25 non-refundable application fee is due at the time the applications for housing is submitted. Applicants will be assigned a space on a first come, first served basis. When an assignment is made, applicants will be mailed a contract agreement for their assigned space. Upon receipt of the contract, applicants will have two weeks to read, sign and return the contract agreement along with a refundable (if cancelled by designated deadline) $250 prepayment of fall room fees.

Student Success Seminars

Student Success Seminars help students to answer questions like how to take notes, test effectively, how to manage your time and money, how to prepare for final exams, and many more. The seminars are designed to help enrich your life and your academic performance. Seminars are free and they are offered on-campus and online. For more information about on-campus or online seminars schedule, visit the Office of Student Retention Programs, Room 524, Hill University Center, Telephone (205) 934-8804, electronic mail studentretention@uab.edu or read about our programs and services on the UAB website, www.uab.edu, and then click Students.uab.edu.

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, Suite 540, Hill University Center, Telephone (205) 934-2729.

UAB Testing

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)
- Medical College Admission Test (MCAT)
- 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
- Registration and general information for Test of English as a Foreign Language (TOEFL)

For further information on any of the above, contact the UAB Testing Office, Room 470, Hill University Center, 1400 University Boulevard, 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 and Regal Cinemas, and Rave Motion Pictures, and to most major theme parks across the southeast, including Six Flags Over Georgia and Universal Studios Florida. First-class postage stamps are also available for purchase (UAB internal requisitions are accepted). For additional information, contact the UAB Ticket Office, located inside the Blazer Bookstore, Room 150, Hill University Center. Telephone: (205) 934-8001. Visit our website at students.uab.edu (Click on Services and then *Ticket Offices* on the left sidebar.)

Veterans Affairs

UAB Veterans Affairs assists veterans, reservists, guardsmen, and dependents of disabled or deceased veterans. It serves as a liaison between the student and local and federal agencies, including the State Department of Education, Department of Defense, and the Department of Veterans Affairs. UAB Veterans Affairs assists students in applying for education benefits, securing tutorial assistance and obtaining veterans work-study positions. For further information, contact UAB Veterans Affairs, Room 524, Hill University Center, Telephone (205) 934-8115 or read about our programs and services on the UAB website, www.uab.edu, and then click Students.uab.edu

Women's Center

The Women's Center offers personal (non-academic) counseling services to currently enrolled UAB students. The services are confidential, are provided by a Licensed Professional Counselor, and are free of charge to all UAB students. In addition to counseling, the center provides educational programs on sexual assault, sexual harassment, eating disorders, and other mental health issues that effect women. The Women's Center supports and encourages women seeking a balanced and meaningful life. For further information, contact the Women's Center, Room 150, Holley Mears Building, Telephone (205) 934-6946.

Admission to Undergraduate Programs

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 Admission utilizing the criteria approved by the university. Admission decisions are based on, but not limited to, 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 on the Internet at www.uab.edu/apply. To expedite the admission process, prospective students are highly encouraged to apply online. Applications are processed in the order in which they are complete and ready for a decision.

Prospective students currently attending high school may apply 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.

Prospective students currently attending another college or university may apply one year prior to the date of the desired term of enrollment, but an admission decision will not be rendered with more than one term of coursework pending. 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 mailed 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 representations 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 applicants offer of admission will be rescinded.

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 Equal Opportunity Policy in page 477.)

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.

Deadline #1 applies to 1) beginning freshmen; 2) transfer students who have earned less than 24 semester (or 36 quarter) hours of transferable college-level work; 4) international students;
and 3) Early Admission, Dual Enrollment, or Concurrent Enrollment applicants.

Deadline# 2 applies to 1) transfer students with more than 24 semester (or 36 quarter) hours of transferable college-level work; 2) former UAB students; 3) post-baccalaureate students; and (4) non-degree seeking students.

Term of Initial Enrollment	Deadline #1	Deadline #2
Fall 2008	March 1, 2008	May 1, 2008
Spring 2009	November 1, 2008	November 1, 2008
Summer 2009	April 15, 2009	April 15, 2009

The application for admission, application fee, and all supporting official academic documents must be complete and received in the Office of Undergraduate Admission 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, significant additional steps are required:

- School of Arts & Humanities (music)
- School of Business
- School of Education (Teacher Education Program)
- School of Engineering
- School of Health Professions
- School of Nursing
- School of Social and Behavioral Sciences (social work)

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

Declaration of School and Major

Applicants are asked to indicate an intended major field of study on the application for admission. Those applicants who are undecided about a specific major but know their general field of interest may ask to be admitted as undeclared within the appropriate school. Those applicants who do not have a general field of interest may request admission as undeclared to the Division of General Studies (Exploratory Studies). International students must declare a major.

Admission as a Degree Student

Freshman Admission
High School Graduates

(1) Completion of a college preparatory curriculum to include the following:

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	

(2) Minimum high school grade point average (grades 9-12) of 2.25 on a 4.0 scale
(3) Minimum ACT score of 20 or SAT score of 950 (critical reading + mathematics)

General Education Development (GED) Recipients

Applicants who have not graduated from high school must meet the following requirements in order to be considered for admission:

(1) Must be at least 19 years old
(2) Minimum score of 520 on the GED test
(3) Minimum ACT score of 20 or 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.

Early Admission

Students who have exceptional academic credentials and who have strong endorsements from their parents and high school may be considered for admission without completing the senior year of high school. Requirements include 1) minimum grade point average of 3.0; 2) minimum ACT score of 25 or SAT score of 1140 (critical reading and math); 3) a letter of support from a parent or guardian; 4) a letter of approval from the high school principal; 5) a one-page personal essay; and 6) a personal interview with the Director of Undergraduate Admission.

Transfer Admission

Applicants with a minimum of 24 transferable college semester hours must (1) have a minimum grade point average of 2.0 in all such work and (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").

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 or vocational 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 active suspension from UAB or another university are not eligible for transfer.

Credits in academic subjects are usually eligible for transfer to UAB if they were awarded by an institution of higher education that has been accredited by one of the regional agencies recognized by the American Council on Education.

If an institution is not yet accredited, but has acquired candidate status from a regional accrediting agency, then academic credits from the institution are eligible for transfer to UAB. 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 do not normally transfer to UAB. However, applicants with credits in this category may contact Academic Programs and Policy for information on the "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 prior to transfer to receive information on the transfer of international credits.

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 UAB Academic Programs and Policy. See page 67 for Transfer Credit Policy.

Limitations of Transferred Credit

One half of the degree requirements 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.

Transfer Students from Alabama Junior/Community Colleges

In Fall 1998 the State of Alabama began to implement a statewide articulation program based on transfer requirements approved by the Alabama Articulation and General Studies Committee (AGSC). The Statewide Articulation Reporting System (STARS) is accessible as an internet-based advising system that allows unlimited access to AGSC-approved transfer requirements. Students who intend to transfer to UAB from an Alabama junior or community college are encouraged to consult with their junior/community college advisors and obtain a STARS guide. STARS guides may be accessed at www.uab.edu/transfer or http://stars.troy.edu. When planning programs of study, this guide will identify courses for major requirements and will show UAB equivalencies for junior/community college courses.

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.

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 document-by-document evaluation which includes a minimum grade point average (GPA) computation of 2.25; (2) an official TOEFL score of at least 500 on the written examination, 173 on the computer-based version, or 61 on the Internet-based version is required if English is not the applicant's native language; and (3) an official ACT score of at least 20 or an official SAT score of 950 (critical reading and mathematics).

Applicants who have completed secondary school in the U.S. system 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 document-by-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 500 on the written examination, 173 on the computer-based version, or 61 on the Internet-based version is required if English is not the applicant's native language or if the applicant has not attended a U.S. high school for at least two years; and (3) an official ACT score of at least 20 or an official SAT score of 950 (critical reading and mathematics).

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; and (2) an official TOEFL score of at least 500 on the written examination or a score of 173 on the computer-based version, or 61 on the Internet-based version 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; and (2) an official TOEFL score of at least 500 on the written examination or a score of 173 on the computer-based version, or 61 on the Internet-based version is required, if English is not the applicant's native language or if the applicant has not completed at least 24 transferable semester hours of U.S. college course work.

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 must be requested from one of the following 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 Undergraduate Admission.

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.

Student Visa

Immigration requirements include 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.

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.

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.

Post-Baccalaureate Admission

Persons with a baccalaureate degree who wish to seek a second baccalaureate degree should apply as a degree seeking student. Applicants must have a minimum grade point average of 2.0 in all college coursework attempted.

Persons with a baccalaureate degree who wish to (1) meet prerequisites for advanced programs or (2) to satisfy requirements for professional certification should apply as a non-degree seeking student. Applicants must 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 as a non-degree seeking student (Temporary, Transient, and 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 Temporary student. Temporary students are limited to enrolling in four semester hours per term with a total maximum of 12 semester hours.

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

Transient Students (TR)

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

Academic Requirements: Applicants for Transient status must submit an official transcript from the home institution. Enrollment as a Transient student is typically for one term, with a maximum of two consecutive semesters. If Transient enrollment is not in consecutive terms, a letter of good standing will be required for each term of enrollment at UAB.

Change from Non-Degree to Degree Status

A student may apply for a "change of status" from a non-degree classification to degree-seeking by submitting a "Change of Status" form and processing fee to the Office of Undergraduate Admission. The deadline for submitting a "Change of Status" form and all required documentation is the application for admission deadline for the desired term of change. In order for a change of status to be approved, the individual must meet all admission criteria and submit all documentation required for a degree-seeking applicant. See "Admission to Undergraduate Programs" for criteria and required documents.

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 support from a parent or guardian; 4) a letter of approval from the high school principal; and 5) a one-page personal essay (Concurrent Enrollment only).

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.

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 Admission.
2. Applicants must submit a letter of recommendation from an individual (not a family member) who can speak knowledgably about the applicant's academic background and potential.
3. Students who are admitted through this procedure will be conditionally admitted. 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 the first-term course load to a maximum of 14 semester hours, which must include UNIV 101. Students admitted conditionally will be required to confer with an academic advisor for at least two consecutive terms. It is strongly recommended that all conditionally admitted students complete the Core Curriculum requirements for written composition and basic mathematics within four regular terms of admission.
   Students who are admitted through this procedure will be admitted to and advised through the Division of General Studies.

Transfer/Former UAB Students

1. Applicants must submit a letter addressed to the Admission Appeals Committee which addresses several issues regarding educational goals: (a) Reasons the applicant did not do satisfactory academic work when previously enrolled; (b) What the applicant has done since last enrolled in school; (c) What steps the applicant has taken to prepare for academic success at UAB; (d) Goals for personal development, career and education; and; (e) Why the applicant is now better able to complete goals than when last enrolled in school.
   Students who are admitted through this procedure: (a) will be admitted to and advised through the Division of General Studies; (b) must adhere to all policies and procedures of probation status; and (c) must limit the 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 Admission. 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.

Immunization Policy

In response to outbreaks of rubella (red measles) on college campuses throughout the United States and in accordance with the American College Health Association's recommendation that students be immunized against certain diseases, UAB has established an immunization policy. For a summary of the UAB Immunization Policy, which applies to UAB students and to international scholars, see page 479.

Equal Opportunity Policy

The University of Alabama at Birmingham 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 on page 477.

Contact Information

Office of Undergraduate Admission

Mailing Address
Office of Undergraduate Admission
HUC 260
1530 3rd Ave South
Birmingham, Alabama 35294-1150

Physical Address
Office of Undergraduate Admission
Hill University Center, Room 260
1400 University Boulevard
Birmingham, Alabama 35294-1150

(205) 934-8221 or 1-800-421-874
UndergradAdmit@uab.edu
www.uab.edu/apply

New Student Orientation

Orientation sessions are offered several times prior to the beginning of each term for all incoming new students. Designed to assist students in making a smooth transition to UAB, orientation sessions include fun activities and informative programs about services available to students. Additionally, new students meet with faculty and academic advisors and register for classes. Attendance at New Student Orientation is mandatory for all new degree-seeking students prior to their first term of enrollment.

For more information, contact the **Office of New Student Orientation**
Room 531 Hill University Center
1400 University Boulevard
Birmingham, Alabama 35294-1150.
Telephone (205) 975-7999
e-mail orient@uab.edu.

Financial Information

Tuition and Fees

How to Pay

Payments can be made via the web with a Blazer ID and Password at blazernet.uab.edu. Payments can also be made in Student Accounting Services located in the Hill University Center, Room 322. All fees are due by the published deadline, as indicated on the UAB Academic Calendar at blazernet.uab.edu. For tuition questions please call Student Accounting Services at (205) 934-3570.

Student Responsibility

It is the student's responsibility to remit payment in full by the published deadline. To view the due dates or other important information, please go to Student Resources at blazernet.uab.edu.

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.

Estimated Tuition and Fees

To find out the estimated Tuition and Fees please visit the following web site: *blazernet.uab.edu.*

Withdrawal from Courses

Required Procedures

Withdrawal from courses can only be accomplished using official procedures. The official withdrawal must be completed online in BlazerNET by the student or submit a completed withdrawal form to the Office of Registration and Academic Records. This office will date stamp the form and return a copy. These documents should be carefully retained 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 or obtain an official withdrawal form, the student may mail a withdrawal letter to the Office of Registration and Academic Records. The official date of withdrawal will be the date the letter is received in this office.

Failure to attend class does not constitute a formal drop or withdrawal. For financial aid purposes, the date of last class attendance will be the official date of withdrawal unless otherwise documented.

Adjustment of Charges

On the academic calendar for each term, there is a date designated "last day to drop/add." The student's residency status on that day determines the tuition rate incurred for the term. If a student officially withdraws from all courses prior to 5:00 p.m. on that date, all course related tuition and fees will be canceled. However, other fees previously assessed for services provided, fees assessed based on registration commitments and the fee for withdrawal ($25.00) will remain due and payable by the published deadline. (Consult the current term UAB Class Schedule for specific fees.) If a student withdraws after that date, total tuition and fees are due and no refunds can be made (except in cases where a licensed physician certifies that the student is incapable of continuing with the course because of a serious medical condition which arose after the above date).

Students withdrawn for disciplinary reasons or for nonpayment of fees are ineligible for refunds or cancellation of charges due.

Financial Aid to Students

Students may apply for financial aid if they need assistance in paying for the cost of attendance. 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 financial circumstances.

Applying for Financial Aid

Since some of the aid programs have limited funding, students are encouraged to apply by April 1 for financial aid for the following fall to ensure they receive aid from all programs for which they are eligible. Completed applications should be submitted 45 days prior to the beginning of the term in order to receive aid in time to meet the tuition and fees payment deadline. 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 request further information from Student Financial Aid located in room 317, Hill University Center, 1400 University Boulevard, Birmingham, Alabama 35294-1150. Telephone (205) 934-8223. Mailing address: 1530 3rd Avenue South, HUC 317, Birmingham, AL 35294-1150. The Free Application for Federal Student Aid (FAFSA) and the institutional forms are available on our Web site at www.students.uab.edu/financialaid.

Financial Aid Programs

Federal Pell Grants

The federal government has allocated funds that currently provide grants up to $4,310 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 $2,000.

Academic Competitiveness Grant

This federal grant provides $750 for eligible students in the first year of their undergraduate program and $1,300 for eligible students in the second year of their undergraduate programs. Students must be Pell Grant eligible.

National Smart Grant

This federal grant provides up to $4,000 per year for eligible undergraduate students in the third or fourth year of their degree program. Eligible student must major in physical, life, or computer sciences, mathematics, technology, engineering or in a foreign language determined critical to national security. The U.S. Department of Education has designated eligible majors.

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 $20,000; the total amount of loans made to a graduate student for all years, including any loans received as an undergraduate, may not exceed $40,000. 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 with a fixed rate of 6.8%. 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, and $8,500 for graduate students. The aggregate limits are $23,000 for dependent undergraduates and $46,000 for independent undergraduates. The aggregate loan balance for graduate students is $138,500.

Federal Direct Unsubsidized Stafford/Ford Loan

This is a non-need-based loan with a fixed rate of 6.8%. 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, and $12,000 as graduate students.

Federal Direct Parent Loan for Undergraduate Students

This is a non-need-based loan with a fixed rate of 7.9%. Repayment of principal and interest begins immediately after the loan has been disbursed. Annual loan limits are the cost of living minus other aid.

Federal Direct PLUS Loan for Graduate and Professional Students

This is a non-need-based loan with a fixed rate of 7.9%. Annual loan limits are the cost of living minus other aid.

Scholarships and Merit Awards

New freshmen are automatically considered for all university-wide academic scholarships once they are accepted to UAB. Merit scholarships are awarded on a first come-first-served, funds-available basis to eligible entering freshmen. Students who wish to be considered for merit scholarships should postmark the undergraduate application and all supporting credentials (official transcript and official ACT and/or SAT scores) as early as possible after the completion of the junior year and no later than November 1 of the senior year. Admission applications completed after November 1 of the senior year will be considered on a funds-available basis only.

Transfer students are automatically considered for all university-wide academic scholarships once they are accepted to UAB. Since scholarships are awarded on a first come-first served basis, application for admission should be completed as early as possible.

Scholarship applications are available in the Financial Aid Office in late fall for currently enrolled UAB students. The application deadline is February 1. Scholarships are awarded in the spring and go into effect the following academic year.

Along with scholarships offered by the university, many individual schools and departments award their own scholarships. Students should check with the school of their major for scholarships for which they may be eligible.

The following is a brief description of scholarships that are awarded based on academic merit, financial need, or talent.

Academic Affairs Scholarship: This one-year award is reserved for a currently enrolled UAB student with a declared major.

Academic Excellence Award: This renewable award, valued at $8,000 plus $4,000 on-campus housing allowance per year is reserved for entering freshmen and is based on academic achievement.

Regions Academic Scholarship: This renewable award valued at $12,500 per year is reserved for entering freshmen. Selection is based on outstanding academic achievement.

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 academic achievement.

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

Blazing Scholar Award: This renewable award, valued at $4,000 per year, is reserved for entering freshmen.

Roberts and Mildred Blount Presidential Scholarship: This renewable, award valued at $5,000 per year, is reserved for entering freshmen who are graduates from a public or private high school in Elmore County, Alabama.

Martha Corbin Scholarship: This renewable award is reserved for entering freshmen who are residents of Alabama. Selection is based on academic achievement.

Distinguished Alumni Scholarship: A non-renewable award for a full-time UAB student. This scholarship requires a GPA of 3.5 or better. Applicants must have declared a major.

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

Green and Gold Scholarship: This renewable award, valued at $4,500 plus $2,000 on-campus housing allowance per year, is reserved for entering freshmen and is based on academic achievement.

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.

Howlin Mad Smith Detachment of the Marine Corps League Scholarship: This scholarship is reserved for students who are current or former members of the U.S. Marine Corps.

Charles W. Ireland Presidential Honors Scholarship: This renewable award, valued at $10,000 plus $2,000 on-campus housing allowance per year, is reserved for entering freshmen. Selection is based on leadership potential and character.

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

Nelson & Charleen Kemp Foundation Scholarship: This one-year scholarship is reserved for graduates of Winfield High School.

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 tuition and required fees, a $1,000 book allowance, plus $2,000 on-campus housing allowance each year.

License to Learn Scholarship: This renewable award is reserved for a junior-college transfer student or a current UAB student. This award is based on both merit and need.

McCallum Presidential Scholarship: This renewable award, valued at $10,000 plus $2,000 on-campus housing allowance per year, is reserved for entering freshmen who demonstrate outstanding academic qualifications.

Minority Presidential Scholarship: This renewable award is available to African American students who are entering freshmen. Scholarships pay required tuition and fees each year with summer stipends of $1,000. Selection is based on academic achievement, strong ACT or SAT score, leadership potential, and extracurricular activities.

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

W. Sanders Murrell Alumni Legacy Scholarship: This renewable award, valued at $1,000 per year, is reserved for entering freshmen who are children of UAB alumni. Applications available at [www.alumni.uab.edu].

Phi Theta Kappa Scholarship: This renewable award, valued at $4,000 per year, is reserved for junior-college transfer students who are members of Phi Theta Kappa. The award is based on academic achievement and leadership.

Virginia and Anna Praytor Scholarship: This scholarship is awarded on an annual basis to entering freshmen or currently enrolled UAB students. Must be a graduate of a Birmingham city high school.

Provost's Award: This renewable award provides $2,000 per year for entering freshmen who have been designated National Merit Finalists and list UAB as their first- choice institution. These awards are given in addition to any regular academic scholarships National Merit Finalists may receive at UAB.

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.

UAB Deans' Scholarship: $1,000 annual scholarships are awarded for one or two years to junior-college transfer students and UAB students. The award is based on academic achievement, outstanding leadership, or demonstrated talent.

UAB Faculty Women's Club Scholarship: Scholarships are awarded to women over 25 years of age returning to complete an undergraduate degree. An essay is required.

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

UAB Leadership Council: Scholarships are awarded to current UAB students from the Birmingham Metropolitan Area. Apply during sophomore year. The scholarship will be awarded after completion of 60 semester hours.

UAB Non-Resident Scholarship: These renewable awards are reserved for entering freshmen who are not residents of Alabama. The value of these merit-based awards ranges in value from $4,500 to $6,000 per year.

UAB Transfer Scholarship: This renewable award, valued at $1,000 per year, is reserved for junior-college transfer students.

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

University Scholars Award: These renewable awards are reserved for entering freshmen. The merit-based awards pay in-state tuition and required fees, a $1,000 book allowance, and $2,000 on-campus housing allowance each year.

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.

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 in the work force and are returning to school to complete their educations on either a part-time or full-time basis.

The following are Program-Related Scholarships. Please contact the department or individual listed for more information on the application process.

School of Arts & Humanities

Alliance Française of Birmingham Scholarships: One or two merit-based scholarships awarded to incoming or continuing students majoring in French. For more information, visit http://www.uab.edu/foreignlang/scholarships.html or contact the Department of Foreign Languages and Literatures at (205) 934-4652.

Ruby Lloyd Apsey Scholarships: These scholarships are awarded annually and are renewable for promising students majoring in theatre. For further information, contact the Department of Theatre at (205) 934-3236.

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. For more information, contact the Department of Art and Art History at (205) 934-4941

Edward H. Atchison Scholarships: These renewable scholarships are reserved for students in the visual and performing arts or in programs in music or art education. For information, contact the Department of Art and Art History at (205) 934-4941, the Department of Music at (205) 934-7375, or the Department of Theatre at (205) 934-3236.

Band Scholarships: Students are required to participate in various ensembles as determined by the director(s). Open to students of all disciplines. For further information, visit http://www.music.uab.edu/site2/prospects.html or contact the Department of Music at (205) 934-7375.

Bernice Cook Thomas 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. For further information, contact the Department of Art and Art History at (205) 934-4941.

Choral Scholarships: Students are required to participate in various ensembles as determined by the director(s). Open to students of all disciplines. For further information, visit http://www.music.uab.edu/site2/prospects.html or contact the Department of Music at (205) 934-7375.

Vargas and Overbach Cohen Spanish & Pre-Medicine Scholarship: Awarded to an incoming, transfer, or continuing student majoring in Spanish and Pre-Medicine. Primarily based on merit although financial need may be considered. For more information, visit http://www.uab.edu/foreignlang/scholarships.html or contact the Department of Foreign Languages and Literatures at (205) 934-4652.

John Dillon Scholarship: This scholarship is awarded annually to a student concentrating in studio art and doing significant work in printmaking. For further information, contact the Department of Art and Art History at (205) 934-4941.

Edith B. Frohock Memorial Scholarship: This scholarship is awarded annually to a junior concentrating in studio art. For further information, contact the Department of Art and Art History at (205) 934-4941.

Gloria Goldstein Howton Scholarship: 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. For information, contact the Department of English at (205) 934-4250.

Incoming Freshman Art Scholarships: Scholarships awarded annually to new high school graduates planning to major in art. Application requires portfolio. For more information, contact the Department of Art and Art History at (205) 934-4941.

David Lloyd Memorial Scholarships: These scholarships are awarded annually and are renewable for outstanding students majoring in theatre. For information, contact the Department of Theatre at (205) 934-3236.

James Darrell McAnnally Piano Scholarship: One award per year of $750 for a music major in piano performance. For further information, visit http://www.music.uab.edu/site2/prospects.html or contact the Department of Music at (205) 934-7375.

Kathryn Cramer Morgan Scholarship: This scholarship is reserved for a junior or senior student who is outstanding in public speaking and majors in Communication Management. For more information, contact the Department of Communication Studies at (205) 934-3877.

Music Technology Scholarships: Five awards per year of $500 for music majors in the Music Technology Program. For further information, visit http://www.music.uab.edu/site2/prospects.html or contact the Department of Music at (205) 934-7375.

The 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. For information, visit http://www.uab.edu/english/undergrad/scholarships.html or contact the Department of English at (205) 934-4250

John Schnorrenberg Scholarship: This scholarship is awarded annually to an undergraduate concentrating in art history. For further information, contact the Department of Art and Art History at (205) 934-4941.

Spanish Scholarship: One merit-based scholarship awarded to an incoming, transfer, or continuing student majoring in Spanish. For more information, visit http://www.uab.edu/foreignlang/scholarships.html or contact the Department of Foreign Languages and Literatures at (205) 934-4652.

Byron St. Dizier Scholarship: This scholarship is reserved for a junior or senior student in print or broadcast journalism. For more information, contact the Department of Communication Studies at (205) 934-3877.

Myrtle Jones Steele Piano Scholarships: Two awards per year of $750 for music majors in piano performance. For further information, visit http://www.music.uab.edu/site2/prospects.html or contact the Department of Music at (205) 934-7375.

Alys Robinson Stephens Scholarship: One award per year of $1,000 for a music major in any instrument or voice. For further information, visit http://www.music.uab.edu/site2/prospects.html or contact the Department of Music at (205) 934-7375.

Ellen Shizuko Takahashi Scholarship: This scholarship is awarded annually to a student concentrating in studio art and doing significant work in painting. For further information, contact the Department of Art and Art History at (205) 934-4941.

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. For information, visit http://www.uab.edu/english/undergrad/scholarships.html or contact the Department of English at (205) 934-4250.

Weaver/Harvey Scholarship: This scholarship is awarded annually to a student concentrating in studio art and doing significant work in graphic design. For further information, contact the Department of Art and Art History at (205) 934-4941.

UAB Music Scholarships: Two awards per year of $500 for music majors in any instrument or voice. For further information, visit http://www.music.uab.edu/site2/prospects.html or contact the Department of Music at (205) 934-7375.

John W. Wittig Scholarship: This scholarship is reserved for a junior or senior student majoring in public relations. For more information, contact the Department of Communication Studies at (205) 934-3877.

Stevie Wonder Music Scholarships: Three awards per year of $500 for music majors in the Music Technology Program. For further information, visit http://www.music.uab.edu/site2/prospects.html or contact the Department of Music at (205) 934-7375.

Jane White Mulkin Endowed Scholarship: This scholarship is awarded annually to a student enrolled in, or admitted to, the School of Arts and Humanities. Preference given to applicants in need of financial assistance, particularly non-traditional students who are attending school while working. For further information, visit http://art.hum.uab.edu/html/schoolwidescholarship.html or contact the School of Arts and Humanities at (205) 934-2290.

School of Business

ACL Forensic Scholarship: A $1000 scholarship for Accounting major with an interest in forensic accounting with minimum 3.0 GPA. For further information, contact The School of Business at (205) 934-8813.

AMA/UAB Scholarship in Business: A $500 scholarship will be 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 or higher cumulative GPA and demonstrate solid academic promise. For information, contact the School of Business at 934-8813.

Accounting Advisory Council Scholarship: A $2500 scholarship will be awarded to a student with an accounting major with a 3.0 minimum GPA who is enrolled in or has completed AC300. For further information, contact the School of Business at (205) 934-8813.

American Women's Society of CPA's: $500 is awarded to a senior in Accounting with a 3.5 GPA overall who has completed AC 300. For information, contact the School of Business (205) 934-8813.

American Society of Women Accountants: A scholarship valued at $500 is awarded to a senior in accounting with at least a 3.0 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: A $500 scholarship. Student must be enrolled or admitted to the School of Business and be an accounting major with an interest in forensic accounting. Must demonstrate involvement in student or community activities and have a minimum 2.5 GPA. For further information, contact the School of Business at (205) 934-8813.

Ayers Scholarship in Marketing: A $500 scholarship is awarded for student with minimum 3.0 GPA. Student must be marketing major. 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 of $1,500 will be awarded to a student majoring in accounting and entering his/her senior year. Recipient must have earned and maintained a 3.0 GPA in all coursework and preferably completed AC 300. For information, contact the School of Business at (205) 934-8813.

Barfield, Murphy, Shank & Smith Scholarship in Accounting: A $1,000 scholarship 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 information, contact the School of Business at (205) 934-8813.

Becker/Conviser CPA Review Scholarship: Free Becker/Conviser 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. For information, contact the School of Business at (205) 934-8812.

Birmingham Chapter of the Alabama Society of CPA's Scholarship: Two scholarships valued at $1,500 each will be awarded to accounting majors entering their senior years. Recipient must have earned and maintain 3.0 GPA in all coursework. For information, contact the School of Business at or (205) 934-8813.

Birmingham Chapter of the IMA Scholarship: One or two scholarships up to $2,500 are awarded to a full time student(s) who has completed AC 300 and maintains an overall 3.0 and Accounting 3.25 GPA. For 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 information, contact the School of Business at (205) 934-8813.

John F. Breyer Endowed Scholarship: A variable amount scholarship will be awarded to student enrolled or admitted to The School of Business with a 3.0 or better GPA. Financial need and academic promise are considered. 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.

CFA Society of Alabama: This scholarship is awarded annually to seniors wishing 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. As of 2007, the value of each scholarship is $760 and up to 10 may be awarded each year.

Carolina Handling/Raymond Corp Scholarship: A minimum of $2,000 is awarded for one academic year. Recipients may re-apply in following years but one individual recipient is limited to four years. Awarded to an entering freshman, transfer, or currently enrolled student pursuing a career in the materials industry, having prior experience in materials handling, majoring in Industrial Distribution and available for summer practicum with scholarship sponsor. Current UAB ID students should be involved in extracurricular activities on campus and in the community. Recipient must complete a minimum of 24 hours during the academic year and maintain a 3.0 GPA overall. A committee will choose the recipient and personal interviews are required. For information, contact the School of Business at (205) 975-5810 or (205) 934-8812. Deadline: February 1.

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.

Colonial Properties Trust Scholarship Program: An 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 information, contact the School of Business at 934-8812. Deadline: February 1.

Tommie G. Cummings Endowed Scholarship in Accounting: A scholarship of variable amount is awarded to an entering freshman or currently enrolled student or MAC student who demonstrates solid academic performance or achievement.

Computer Technology Solutions: CTS provides $2,500 in scholarships to students who major in Information Systems and who demonstrate capabilities and aptitude for systems development and emerging IT issues. CTS is on of Birmingham's premier consulting firms for IT development and systems development.

Culver Scholarship in Economics: An annual scholarship of $500 will be awarded to a student currently enrolled or admitted as an economics major in either the School of Business or the School of Social and Behavioral Sciences. Applicants must have a 3.0 overall GPA and demonstrate financial need. Applicants should also demonstrate leadership and be active in student activities. For information, contact 934-8813.

Deloitte & Touche Recruiting Scholarship in Accounting: Applicants must be high school seniors who plan to pursue a degree in Accounting. Applicants should demonstrate academic excellence. This scholarship is renewable for four years as long as the recipient maintains eligibility requirements. The $2,000 annual scholarship award will be applied toward the recipient's tuition and fees. For information, contact the School of Business at (205) 934-8813.

Economagic Scholarship in Economics: An annual scholarship for $500 will be awarded to a currently enrolled or admitted student majoring in Economics in the School of Business or the School of Social and Behavioral Sciences. Applicants must have a 3.0 or higher overall GPA. For information, contact the School of Business at 934-8813. Deadline: February 1.

Edmonds Scholarship: One $1,000 scholarship will be awarded to a student majoring in accounting with at least a 3.0 GPA showing financial need. For information, contact the School of Business at (205) 934-8813.

Educational Foundation of ASCPA Scholarship: $1,500 is awarded to a full- time JR student who has completed AC 300, has a minimum 3.0 accounting and overall GPA. For information, contact the School of Business at (205) 934-8812.

El Paso Corporation Accounting Scholarship: $2,500 is awarded to a minority accounting undergraduate, graduate, or equivalent student. Recipient must have and maintain a 3.0 GPA and have a year of coursework remaining. For information, contact the School of Business at (205) 934-8813.

Ernst and Young/John L. Rhoads Scholarship in Accounting: Two scholarships of $1,200 will be awarded to either undergraduate accounting majors entering their senior year or accounting equivalent students. The recipients must have a minimum of 3.25 accounting GPA and minimum 3.0 overall GPA. Must be involved in professional and other activities, have an interest in public accounting and preferably have completed AC 300 and AC310. For information, contact the School of Business at (205) 934-8870 or (205) 934-8812. Deadline: February 1.

Ernst and Young Recruiting Scholarship in Accounting: Applicants must be high school seniors or junior college transfers who plan to attend UAB and pursue a degree in accounting. Applicants should demonstrate academic excellence. The scholarship is renewable for four years as long as the recipient maintains eligibility requirements. The $2,0000 scholarship award will be applied toward the recipient's tuition and fees. For information, contact the School of Business (205) 934-8812.

Federation of Schools of Accountancy: A plaque is awarded to a fifth-year student in accounting. GPA is important. For information, contact the School of Business at (205) 934-8812.

Fetherston Scholarship in Finance: One scholarship is awarded for $500 to a currently enrolled or admitted finance major. The recipient must have at least a 3.0 GPA demonstrate leadership, and be active in student activities. For 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 on academic promise, leadership potential and financial need. Awards are renewable so long as the recipient maintains a minimum overall GPA of 2.5 and an average 3.0 in his or her major. For information, contact the School of Business at (205) 934-8813.

Forensic CPAs LLP Scholarship: A $2000 scholarship will be awarded to student in accounting or information systems major. Junior or senior with a 3.0 or better GPA and an interest in forensic accounting. For further information, contact the School of Business at (205) 934-8813.

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

Edward M. Friend School of Business Endowed Scholarship: A variable gift will be awarded to a new or currently enrolled student in the School of Business. Applicants must have a 3.0 overall GPA.

A.G. Gaston Endowed Memorial Scholarship: One scholarship is awarded to an African American student enrolling as a freshman or currently enrolled in the UAB School of Business. Recipients are 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 information, contact the School of Business at (205) 934-8813.

GE Industrial Distribution Endowed Scholarship: $2,500 is awarded to an entering freshman 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. Recipients may re-apply in following years but will be limited to four academic years. For 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.

Robert E. and Diane Holmes Endowed Scholarship: A variable gift will be awarded to a new or currently enrolled student in the School of Business. Applicants must have a 3.0 overall GPA.

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

Information Systems Advisory Board Scholarship: A scholarship of variable amount is awarded to an entering freshman, currently enrolled, or transfer student in the School of Business who is interested in information systems. Junior college students are awarded a $500 scholarship upon their enrollment in the Information Systems program.

Institute of Management Accountants Scholarships: A scholarship valued at $2,500 is awarded to a student majoring in accounting with an interest in management and/or financial management. A 3.0 major GPA is required.

Jackson Endowed Scholarship in Industrial Distribution: $1,500 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 GPA. The recipient must show active participation in extracurricular and/or community service activities. For information, contact the School of Business at (205) 975-5810 or (205) 934-8813.

Victoria A. & Ralph A. Johnson Endowed Scholarship: $1,000 will be 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 overall GPA and preference is given to applicants that are first generation college students over 22 years of age and who are current or previous union members or are 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 information, contact the School of Business at (205) 934-8813.

Journeyman Student Scholarship in Business: Variable amount scholarship to be awarded to junior or rising senior with a business major and a 3.0 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 $1000 scholarship awarded for junior or senior majoring in Accounting. Student must demonstrate solid academic promise and have earned a 3.0 or better GPA. For further information, contact the School of Business at (205) 934-8813.

L. Paul Kassouf Endowed Scholarship: Two scholarships valued from $2,000 to $2,500 each will be awarded to entering 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 GPA. Need is considered if there are equally deserving students. For information, contact the School of Business at (205) 934-8813.

Debra Linton Scholarship: A scholarship valued at $1500 is awarded to an entering freshman, currently enrolled student, or transfer student majoring in accounting with an overall GPA of 3.0.

MBA Alumni Association Graduate Support Fund: Two $500 scholarships will be awarded to a student pursuing an MBA with at least a 3.5 GPA. For information, contact the School of Business at (205) 934-8813.

J. Stanley Mackin Scholarship in Finance: An annual scholarship for a variable amount will be awarded to a finance major within the School of Business. The recipient must have a 2.5 or higher overall GPA and must demonstrate financial need. He/she must also be involved in student activities, show leadership potential and display excellent interpersonal and social skills. For information, contact the School of Business at (205) 934-8813.

David E. Mackle Sr. Endowed Memorial Scholarship in Accounting: A scholarship valued up to $1500 is awarded to an entering freshman with an interest in a major in Accounting. Student should demonstrate solid academic promise or achievement. For information, contact the School of Business at (205) 934-8813.

Katherine L. McCarl Maisel Memorial Scholarship: A scholarship will be 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 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 information, contact the School of Business at (205) 934-8813.

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

Marshall Endowed Scholarship: A variable amount scholarship for four years will be awarded to an entering freshman with the intent to pursue a degree from the UAB School of Business. Applicants must earn 27 hours and maintain a minimum 3.0 GPA. For information, contact the School of Business at (205) 934-8813.

Dean's NABA Scholarship: A scholarship of variable amount is awarded to an accounting major is who a member of NABA.

NABA/Murat Tanju Scholarship: A scholarship valued at $500 is awarded to an accounting major who is a member of NABA.

NABA President's Scholarship: A scholarship valued at $500 is awarded to the NABA President.

M. Gene Newport Business Scholarship Endowment: $1,000 will be 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 GPA. For information, contact the School of Business at (205) 934-8813.

OSRAM Sylvania Scholarship: $1,500 is awarded to an entering freshman or currently enrolled student designating a major in Industrial Distribution. 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 GPA, be committed to the degree requirements of the ID program and participate in community service. For information, contact the School of Business at (205) 975-5810.

Outstanding Accounting Student: A plaque is awarded to the most outstanding undergraduate accounting student. For information, contact the School of Business at (205) 934-8812.

Pearce, Bevill, Leesburg & Moore Scholarship: One scholarship valued at $1,500 will be awarded to either an undergraduate accounting major entering his/her senior year or an accounting equivalent major. Recipient must have a minimum 3.25 accounting GPA and have completed Accounting 300. Need is considered if there are equally deserving students. For information, contact the School of Business at (205) 934-8812.

Pearce, Bevill, Leesburg & Moore/AL Society of CPA's Minority Scholarship: $1500 is awarded to a minority accounting student. A minimum 3.0 GPA is required. For information, contact the School of Business at (205) 934-8813.

Pizitz Endowed Scholarship: $2,500 for four years is 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 GPA. Selection is based on grades, ACT or SAT scores, extra curricular activities and career goals. For 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. Applicants must show academic promise, have a 3.0 GPA in all coursework and be active in student activities. Previous recipients are not eligible to reapply. For information, contact the School of Business at 934-8813.

Ollie S. Powers Endowed Scholarship in Accounting: A scholarship of variable amount will be 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 information, contact the School of Business at (205) 934-8813.

PriceWaterhouseCoopers Scholarship: Two scholarships valued at $1,000 each will be awarded to accounting majors entering their senior year. Recipients must have and maintain a 3.0 GPA. It is preferred that the student has completed AC 300. For information, contact the School of Business at (205) 934-8870 or (205) 934-8812. Deadline: February 1.

PriceWaterhouseCoopers Recruiting Scholarship: One scholarship valued at $2,500 will be awarded to an entering freshman that has demonstrated academic excellence with a GPA of at least a 3.0 and will pursue a degree in accounting. The scholarship is renewable for four years as long as recipient maintains eligibility requirements. For information, contact the School of Business at (205) 934-8813.

Protective Life Corporation Information Systems Scholarship: A $2500 scholarship will be awarded to student in information systems major in School of Business with a minimum 2.5 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.

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.

Regions Bank Endowed Scholarship in Business: A scholarship will be awarded to a student currently enrolled as a finance major in the School of Business. Selection is based upon academic promise, leadership potential, merit and high moral character. The applicant must have and maintain a 3.0 GPA. Recipients are eligible to reapply in subsequent years as long as they continue to meet the requirements. For information, contact the School of Business at 934-8813.

Regions IS Scholars Practicum: A $4000 scholarship plus $18000 for on-site practicum. Student must be an information systems major in the School of Business. Must be a junior or senior with a 3.0 GPA or better. For further information, contact the School of Business at (205) 934-8813.

Roberta M. and John L. Rhoads Accounting Scholarship: Three or four scholarships valued at $2250 each will be awarded to entering seniors in accounting. Recipients must have at least a 3.25 accounting GPA and a minimum 3.0 overall GPA. Need, extracurricular, civic, and professional activities, completion of AC 300 and AC 310 will be considered. For information, contact the School of Business at (205) 934-8813.

Rime Endowed Scholarship: $2,500 for four years is awarded to an entering freshman that intends to pursue a degree in the UAB School of Business and earns at least 27 hours per academic year and maintains a 3.0 GPA. Selection is based on grades, ACT or SAT scores, extracurricular activities and career goals. For information, contact the School of Business at (205) 934-8813.

Joe and Louise Robertson: A $2000 scholarship will be awarded to a senior or graduate student with a 3.0 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 $500 scholarship is awarded to a junior or senior level student with a designated major in Marketing. Recipient must have a 3.2 overall GPA and leadership and membership in the UAB chapter of AMA is considered.

Society for Information Management Scholarship: A scholarship valued at $2,500 is awarded to an entering freshman, currently enrolled student, or transfer student in the School of Business with an interest in information systems as a major.

Bernard S. Steiner Jr. Endowed Memorial Scholarship: Applicants must have a 3.0 GPA in all coursework completed, attends full time, is classified as a junior or senior and demonstrates financial need. Preference will be given to students majoring in Accounting who have completed AC 300. Recipients are eligible to reapply for the scholarship in subsequent years as long as they maintain a 3.0 GPA. For information, contact the School of Business at (205) 934-8813.

Southern Pulp and Paper Industry Labor Management Endowed Scholarship (SPPILMC): One award of a variable amount is awarded to an undergraduate student with a 3.0 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 information, contact the School of Business at 934-8813.

Summerford Accountancy Forensic Scholarship: A $3000 scholarship will be awarded for Accounting junior or senior with a 3.0 or better GPA who is interested in forensic accounting. For further information, contact the School of Business at (205) 934-8813.

School of Education

Cobb Loan/Scholarship: Up to $8,000 is reserved for an incoming freshman from an urban high school who intends to teach in an urban setting following graduation from the Teacher Education Program at UAB. This loan will be considered forgiven and canceled if recipient teaches in an urban setting for two years following graduation. Award renewable for four years with satisfactory academic progress in the School of Education. For information, contact the School of Education at (205) 934-7598.

Roberta and Delbert Long Scholarship: The amount varies on this scholarship awarded to a student enrolled in the School of Education. For information, contact the School of Education at (205) 934-7598. Deadline: March 1.

Artie Manning Scholarship: This $2,000 scholarship is for a student with financial need with a physical or learning disability or a student who plans to teach such children. Applicants must be accepted into the Teacher Education Program. For information, contact the School of Education at (205) 934-7598. Deadline: March 1.

Virginia Horns-Marsh Scholarship: This annual award of $2,000 is for a doctoral student in Early Childhood Education. The award is based on merit, character, and potential for success. For information, contact the School of Education at (205) 934-7598. Deadline: March 1.

Kathryn Cramer Morgan Scholarship: A full graduate assistantship is available. For information, contact the School of Education at (205) 934-7598. Deadline: March 1.

School of Education Alumni Scholarship: A $500 award is available for the grandson/daughter of an educator with a minimum 3.25 GPA. Applicant must have completed 30 hours in the Teacher Education Program or degree program in Education and show financial need. For information, contact the School of Education at (205) 934-7598.

Joyce Sibley Fund: Funds are available to assist a student enrolled in the Teacher Education Program with the purchase of a computer. For information, contact the School of Education at (205) 934-7598. Deadline: March 1.

Ruth M. Strong Scholarships: Up to $1,000 is reserved for a student in the undergraduate Teacher Education Program. Preference is given to a qualified African American student with a 3.0 GPA who shows financial need. For information, contact the School of Education at (205) 934-7598. Deadline: March 1.

Stewart-Snipes Scholarship: Ten awards up to $2,500 each reserved for incoming freshman from an accredited high school in the Jefferson County school system and have been admitted into the University and have identified education as an area of interest. Qualifying students must have earned a 3.0 GPA in high school and a minimum 22 on the ACT or 1030 on the SAT. Award is renewable with satisfactory academic progress. For information please contact the School of Education (205) 934-7598. Deadline: February 1.

Student Alabama Education Association (SAEA) Scholarship: A $500 award is available for students currently enrolled in Teacher Education Program at UAB. Must have a 2.75 GPA, and preference is given to students involved in the SAEA program. For information, contact the School of Education (205) 934-7598. Deadline: March 1.

Jack Tribble Scholarship: Up to $7,500 (individual amounts vary) is available to students with financial need majoring in physical education. For information, contact the School of Education at (205) 934-7598. Deadline: March 1.

School of Engineering

New freshmen are automatically considered for all School-wide academic scholarships once they are accepted to UAB in the School of Engineering. Your admissions application serves as your application for engineering scholarships. No additional application materials are required. Students who wish to be considered for merit scholarships should postmark their undergraduate application and all supporting credentials (official transcript and official ACT and /or SAT scores) no later than November 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.

School of Natural Sciences and Mathematics

Alabama Space Grant Undergraduate Scholarships: UAB is a participant in the Alabama Space Grant Consortium and awards six undergraduate scholarships annually of $1,000/student. The undergraduate scholarships will be renewable following competitive review each year with an individual limit of two years. Undergraduate students in any academic discipline that is likely to improve the understanding, assessment, development, and utilization of space are encouraged to apply. For more information, contact Dr. Yogesh Vohra, UAB Campus Director, Department of Physics at (205) 934-6662.

George F. Brockman IV Scholarship: This scholarship is reserved for a student currently enrolled in the School of Natural Sciences and Mathematics. For information, contact the UAB Office of Student Financial Aid, (205) 934-8223.

Chemistry Scholars Fellowship: This scholarship is reserved for a qualified entering freshman majoring in chemistry. The fellowship will provide a stipend of $1,600 for the first year and $3,200 for each of the remaining three academic years for a total value of $11,200. For information, contact Dr. David Graves, Chemistry Department, at (205) 975-5381.

Joseph M. Fontana Scholarship: This scholarship is reserved for a computer- science major and pays up to $4,000 annually. For information, contact the Department of Computer and Information Sciences at (205) 934-2213.

GATSOL-Baumann Scholarship: This scholarship is awarded to a student enrolled or admitted to the School of Natural Sciences and Mathematics. For information, contact the Office of the Dean at (205) 934-5102.

NSM Physics Faculty Scholarship: This renewable, $1,500/yr scholarship is designed for Physics majors demonstrating exceptional promise for contributing to the development of science. For information, contact Dr. Thomas Nordlund, Physics Department, at (205) 934-0340.

SOLEN Industrial Chemistry Scholarship: This renewable scholarship is awarded annually to an upper-level chemistry major interested in pursuing a career in industrial chemistry. For more information, contact the Department of Chemistry at (205) 934-8276.

UAB Mathematics Fast Track Scholarships: These awards are reserved for qualified students interested in obtaining both a B.S. and M.S. degree in mathematics in four to five years. The award pays up to $9,000 per year and is renewable. For information, contact the Mathematics Undergraduate Program Director at (205) 934-2154.

Travis B. Wood Memorial Mathematics Scholarship: One scholarship is awarded annually to a Mathematics major with preference given to an older student returning to school. The award pays up to $1,000 per year. For more information, contact the Department of Mathematics at (205) 934-2154.

School of Social and Behavioral Sciences

Lauren McLellan Sanders Endowed Scholarship: Given in memory of Lauren by her parents, Steve and Julie Stander. Lauren died at the early age of six of an undiagnosed neurological disease. To recognize her enormous strength and courage this scholarship was established to perpetuate the memory of Lauren's life. 2006 would have been the year that Lauren celebrated her 21st birthday. Steve and Julie Sanders are both alumni of UAB and the School of Social and Behavioral Sciences. The Sanders Endowed Scholarship is a school-wide scholarship and is open to students currently enrolled in a degree-granting program in the School of Social and Behavioral Sciences who have demonstrated solid academic promise and have at least an overall 3.0 grade point average. The Sanders Endowed Scholarship recipient will receive an award of $1,250 ($625 disbursed each semester).

The Edmonds Family Scholarship: Given by Christopher S. and Michelle D. Edmonds for the purpose of creating a scholarship in memory of Mr. Leonard O. Edmonds and in honor of his widow, the current Janice E. Jones, for their service and commitment to the community-at-large and to UAB. Chris graduated from UAB and the School of Social and Behavioral Sciences in 1992 with a Bachelor of Arts in Political Science. The Edmonds Family Scholarship is a school-wide scholarship and is open to students currently enrolled in a degree-granting program in the School of Social and Behavioral Sciences who have demonstrated solid academic promise and have at least an overall 3.0 grade point average. The Edmonds Family Scholarship recipient will receive an award of $1,500 ($750 disbursed each semester).

National Alumni Society Dean's Scholarship: Given by the UAB National Alumni Society, The National Alumni Society Dean's Scholarship is a school-wide scholarship and is open to students currently enrolled in or admitted to a degree-granting program in the School of Social and Behavioral Sciences who have demonstrated solid academic promise and leadership qualities, and have at least an overall 3.0 grade point average. The National Alumni Dean's Scholarship recipient will receive an award of $2,000 ($1,000 disbursed each semester).

Voytek Zubek Memorial Endowed Scholarship: Given by Edurado Perez, an alumnus of the Department of Government and the School of Social and Behavioral Sciences, in memory of his teacher Voytek Zubek. The is a scholarship is open to students currently enrolled in the Department of Government in the School of Social and Behavioral Sciences and they must be a Political Science major. 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. The Voytek Zubek Memorial Endowed Scholarship recipient will receive an award of $1,250 ($625 disbursed each semester).

Pre Law Advisory Board Scholarship: Awarded each Spring from proceeds raised by the UAB Pre-Law Advisory Board comprised of judges and attorneys in the local Birmingham area. 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 maintain a 3.0 minimum grade point average. There are two levels of scholarship: Green is $2,500 and Gold is $2,000.

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 Registration and Academic Records 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 Room 207, Hill University Center, 1400 University Boulevard, Birmingham, Alabama 35294-1150, (205) 934-8222.

Students must notify the Office of Registration and Academic Records of address changes so that notices and other materials are sent to the current address.

Terms and Course Offerings

There are three academic terms during a calendar year: fall semester, spring semester, and summer term. The fall and spring semesters each consist of approximately 15 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 twelve-week session that runs throughout the summer term; the intensive May session, consisting of the first three weeks of the summer semester; a nine 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 both four and a half weeks long and run back-to-back concurrently with the nine-week session. The courses to be offered during a particular term are listed in the UAB Class Schedule, published two times per year. Summer/Fall class schedules are available to students in early March; spring semester schedules are available in late October. Early registration in April allows students to enroll in fall semester classes on a priority basis.

Course Enrollment

Course Numbering System

Course Numbers	Primarily for:
000– 099	developmental courses
100– 199	freshmen
200– 299	sophomores
300– 399	juniors
400– 499	seniors
500– 599	graduate level I
600– 699	graduate level I
700– 799	graduate level II

Courses numbered 500 and above are for graduate students.

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.

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 using the official form available from the Office of Registration and Academic Records. Some majors are subject to additional admission requirements and enrollment limitations.

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.

Mandatory Measles Immunization

All UAB students must have written proof of immunization against rubeola (red measles) in order to register for classes. See page 479 for more information on UAB's official immunization policy.

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 immediately before registration for summer term.

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 student. If accepted, the student is subject to the policies of the catalog current at that time.

Prerequisites for a Course

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.

Add/Drop Procedures

In the case of fall and spring semesters and the 9 and 12 week sessions in the summer term, 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 the ninth calendar day of the term. It is the student's responsibility to initiate add/drop procedures. Dates to drop and add for May session, A Session and B session are published in the UAB Class Schedule for summer term. Registration during late registration (the add period) for any class requires the signature of the instructor unless the class has not met for the first time and there are seats available. The official add/drop form must be used, and there is a fee for each change-of-course form used during late registration. The add/drop form may be obtained in the Office of registration and Academic Records. A student beginning the registration process during the late registration period will be assessed a late registration fee.

Attendance and Excused Absence Policy

The University of Alabama at Birmingham 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 an 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.

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.

Withdrawing from Courses

To avoid academic penalty, a student must withdraw from a course by the withdrawal deadline shown in the academic calendar and the UAB Class Schedule and receive a grade of W (withdrawn). The withdrawal period ends at approximately 60% of the academic term. After this deadline, the student must receive a grade in the course.

Students are not considered officially withdrawn from a single course or their entire registration until they have completed a withdrawal form and submitted it to the Office of Registration and Academic Records or until they have written a letter to that office requesting that they be withdrawn. It is the student's responsibility to initiate the withdrawal process. Failure to attend class does not constitute a formal drop or withdrawal, either academically or financially. Provided the withdrawal would not violate any academic or financial rules, the request will be honored. The date the change-of-course form or the letter is received in the Office of Registration and Academic Records will be regarded as the official date of withdrawal. It is important that students keep the official validation of all course changes as evidence of the transaction. If a student withdraws by mail, a withdrawal validation will be mailed to the student's address of record. Withdrawal is not complete until the student receives the validation notice. If the withdrawal validation is not received, the student is responsible for contacting the Office of Registration and Academic Records before the deadline to withdraw. If the official date of withdrawal is after the last day to withdraw without paying, no tuition or fees will be refunded.

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 student who is in good standing may opt 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, major, or minor requirements. A student must declare the intention to take a course on a pass/fail basis by notifying the instructor at 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 taken 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).

Undergraduate Students in Graduate Courses

With the approval of their advisor, the undergraduate program director or department chair, the instructor, and the graduate program director, 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.

Course Completion

Final Examinations

The final examination for each course is scheduled for a period during finals week. This 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 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.

1. The student, for nonacademic reasons beyond his or her control, is unable to complete course requirements.
2. The student is according to the instructor's assessment, currently passing or has demonstrated the potential for passing the course.
3. 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 grad 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 Registration and Academic Records

W (withdrawn) A notation assigned by the Office of Registration and Academic Records 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. The student must complete and submit a Course Withdrawal Form to the Office of Registration and Academic Records prior to the date specified in the current UAB Class Schedule for the particular academic term.

N (no grade submitted) A temporary notation made by the Office of Registration and Academic Records 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 Registration and Academic Records 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 Registration and Academic Records. The notation "N" cannot be extended.

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 an MT must be submitted to the Office of Registration and Academic Records with a Grade Submission Form signed by the instructor of record. In general, end-of-course grades submitted to the Office of Registration and Academic Records 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 on a Grade

Change Form and require the teacher's signed 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.

Study Abroad Grading Policy

Auditing: Auditing of any UAB Study Abroad 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.

Grade Assignment and Posting of Study Abroad 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.

Course Repeat/ Forgiveness Policies

Any course taken at UAB may be repeated at UAB; however, students should be aware that course repeats might not be looked upon favorably by some employers and professional schools. Courses are normally repeated to achieve a passing grade or an improved understanding of the course content. Students are encouraged to seek advice of an academic advisor before repeating courses.

For courses repeated at UAB, both the original grade and the repeated grade(s) will show on the student's transcript and will be calculated in the student's grade point average (GPA).

Academic departments and schools may have additional provisions regarding repeat courses and the calculation of GPA.

It is the student's responsibility to notify the Office of Registration and Academic Records of a repeated grade, since recognition of a repeated grade is not automatic.

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). 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 Registration and Academic Records 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. Transfer GPA will be calculated on all grades earned at other institution(s).

Forgiveness policy to pre-nursing and Nursing students

Pre-Nursing: Since repeating courses have been linked to lack of success within the BSN Program, the School of Nursing strongly recommends limiting the number of forgiveness options utilized in all courses that precede admission into the nursing program (implementation of this option is NOT recommended for more than one course).

Pre-Nursing: For the purpose of admission to the BSN Program, if a course is repeated, the grade achieved on the second attempt of a BSN Foundation course will be utilized in the calculation of the BSN Foundation GPA.

For students enrolled in the BSN program of study: The Forgiveness policy can NOT be applied to any course with an NUR-prefix while students are enrolled in the School of Nursing.

For students enrolled in the BSN program of study: A Nursing course (any course with an NUR-prefix) may be repeated only once.

For students enrolled in the BSN program of study: According to SON policy, only two (2) Nursing courses may be repeated during the entire upper division program of nursing. If any Nursing course is repeated, it may be repeated only one time. A second failure in any Nursing course will result in dismissal from the SON.

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 form to the UAB Office of Registration and Academic Records prior to enrolling in the course. The request must be approved (1) by the student's academic advisor to assure the course is transferable and will be applicable toward a degree at UAB and (2) by the Office of Registration and Academic Records to indicate the student is in good standing (i.e., has a minimum 2.0 GPA at UAB). Approval to take coursework at another institution as a transient may be granted for one term. However, subsequent transient requests may be filed.

A student will not be approved to take a course as a transient if the equivalent course or its UAB prerequisite has been attempted but not successfully completed at UAB. Any course taken at another institution by a degree-seeking UAB student without prior approval and a Transient Student Request form on file may not be approved for credit at UAB.

Cooperative Exchange Programs

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. 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.

The cooperative program course hours may be counted in the 12 hours needed for full-time; however, students cannot use an audit of a UAB course to count for full-time status. If, after being accepted into a cooperative exchange program, a student drops a UAB course that causes his/her status to fall below full-time, the student will not be allowed to continue in the cooperative program. Students usually may take only one course per term at a cooperative institution, but under special circumstances permission may be granted to take more. All academic regulations of UAB must be observed; in addition, students are expected to observe the academic regulations of the cooperating institutions.

Students must register for a cooperative exchange program course during UAB's registration period regardless of when the host institution's term begins. Further information on registration procedures and other matters may be obtained from the Office of Registration and Academic Records.

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. For more information on the following opportunities for alternative credit, testing schedules, fees and study guide information contact the Office of Academic Programs and Policy, Room 470, Hill University Center. See web-site at **www.uab.edu/testing** or call (205) 937-5503.

Opportunities for earning credit outside the normal course format include:

1. Advanced Placement (AP): The amount of credit awarded and the examination score required are stated in the current policy.

2. 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.

3. International Baccalaureate Credit (IB): Academic credit may be awarded for scores of five or higher on IB higher-level examinations. No credit is awarded for subsidiary-level examinations.

4. 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 your level (undergraduate/graduate) and residency status. The fee for CBE is the full rate of tuition per hour or credit requested.

5. 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 your level (undergraduate/graduate) and residency status. The fee for CBP is the full rate of tuition per hour at credit requested.

6. 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.

7. 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.

8. 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.

Transfer Credits

Collegiate coursework earned at postsecondary institutions that are fully accredited (or in candidacy status) by regional accrediting associations will transfer to UAB and may be applied toward the fulfillment of degree requirements. Coursework earned at institutions not meeting this criterion will be evaluated on a case-by-case basis upon request through the Office of Academic Programs and Policy.

Cumulative Credits and Grade Point Average

The official determination of "credit hours earned," "credit hours attempted," and "grade point average" can only be made by the Office of Registration and Academic Records. The following sections indicate how these quantities 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, or
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, or
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.

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 or Health Professions.

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 Academic Programs and Policy 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 Honors

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.

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 2.00 grade point average 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 plan must be submitted to the Office of the Associate Provost for Undergraduate Programs and will be monitored by the student's academic advisor throughout the probationary period. The student will have a maximum of 24 semester hours to achieve a UAB grade point average of 2.00 or better to clear academic probation.

Academic Suspension

If a student does not clear probation (achieve a UAB grade point average of 2.00 or better by the completion of 24 additional semester hours,) the student will be placed on first suspension for one term. When returning from the first 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 grade point average each term until the UAB grade point average is at least 2.00. The student must achieve a UAB grade pint average of at least 2.00 to have the academic probation removed.

After the first suspension, a student will be placed on second suspension when both the term grade point average and the UAB grade point average are less than 2.00. The second suspension is for twelve months.

Students wishing to return to UAB after a second suspension is must apply to the Office of Undergraduate Admission for readmission. The deadline for a student to submit a 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 second 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 twelve months.

Students may not transfer to UAB work earned at another institution while on suspension from 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 students transcript.

Appeal of First Academic Suspension

Students are academically suspended from the University of Alabama at Birmingham for one term. During this time frame the student is not allowed to register for classes 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 are as follows:

A. 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 petitions 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 Academic Programs and Policy 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.

B. The Suspension Appeals Committee is composed of four members (two faculty members appointed by the Provost's designee, one student designated by the Student Government Association, one representative from the Office of Academic Programs and Policy, and one representative from the University Registrar's Office) who will review all petitions.

C. Should the suspension appeals committee determine that indeed 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 grade point average or reach the retention standards each semester he or she remains in this status. The decision of the suspension appeals committee is final.

The Office of Academic Programs and Policy 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

Upon written request by the student, the Office of Registration and Academic Records 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 $5.00 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.

School, Major, or Address Changes

Changes or corrections to a student's name, address, telephone number, school, or major should be made through the Office of Registration and Academic Records, Room 207, Hill University Center, 1400 University Boulevard, Birmingham, Alabama 35294-1150. Appropriate forms are available in the second-floor lobby.

Conduct and Grievances

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

The University of Alabama at Birmingham 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 Associate Provost for Undergraduate Programs 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 Associate Provost for Undergraduate Programs. 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.

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, and (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 from the judicial officer, Room 101, Hill University Center. It is the student's responsibility to be fully aware of the policies and procedures described in Direction. The Vice President for Student Affairs has the responsibility for coordinating policies and procedures regarding students' non-academic misconduct.

Student Grievances

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, Room 101, Hill University Center, 1400 University Boulevard, Birmingham, Alabama 35294-1150.

Ownership of Intellectual Property Rights

UAB has a detailed policy regarding the ownership of intellectual property rights. See page 488 for additional information.

Drug-free Campus Policy for Students

Unlawful possession, use, manufacture, distribution, or dispensing of illicit drugs, controlled substances, or alcoholic beverages by any UAB student on UAB property or as part of any UAB-sponsored or UAB-sanctioned activity is prohibited.

Electronic Data Processing Security Policy

UAB relies heavily on its electronic data processing systems and computers to meet its operational, financial, and informational requirements.

UAB Student Records Policy

All students currently or previously enrolled at the University of Alabama at Birmingham have certain rights in relation to their educational records. No information from records, files, or other data directly related to a student, other than the directory information defined in this catalog, shall be disclosed to individuals or agencies outside the university without the written consent of the student. Directory information consists of the student's name, local and permanent address, telephone number, major field of study, schedule of classes, dates of attendance, and degrees awarded. Upon written request, this information will also be withheld from outside agencies.

Sexual Harassment Policy

UAB is committed to providing an environment free of discrimination, including sexual harassment. The full text of this policy can be found on page 487.

Appropriate Use of Technology in the Classroom Policy

The use of any personal computational or communications devices in the classroom, not otherwise governed by UAB or course policies, is subject to the approval of the instructor. This includes (but is not limited to) the use of calculators, computers, personal digital assistants, text pagers, and cell phones. Any use of such devices without instructor approval is not permitted. The use of such devices without permission of the instructor may be considered a violation of UAB's non-academic conduct policies. The use of such devices to facilitate an act of academic misconduct (such as cheating or plagiarism) will be considered a violation of the UAB Academic Honor Code and will be sanctioned as outlined in the Code.

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, 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 student, with the following exceptions. Seven years after the date of their first enrollment as a degree 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.

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 attended (including UAB) and an average of at least 2.00 (C) in all credit hours attempted at UAB.

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.

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 Related Professions satisfy Core Curriculum requirements in addition to specific school requirements and requirements in their chosen major. In the Schools of Arts and Humanities, Natural Sciences and Mathematics, and Social and Behavioral Sciences, students meet (1) Core Curriculum requirements, (2) school-wide arts and sciences requirements, (3) requirements for a major specialization, and (4) any requirements for a minor specialization or concentration, if required. The Core Curriculum is described fully beginning on page 77.

Major

The available majors are shown in the list beginning on page 20. Requirements for these 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 using the official form available from the Office of Registration and Academic Records. 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.

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. In addition, students must prepare a rationale for a non-standard 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 Academic Programs and Policy. For advising on program development and approval procedures, consult the Office of Academic Programs and Policy, (205) 934-5503.

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 armed services courses, International Baccalaureate credit, and credit by portfolio, the limit is no more than 45 semester hours.

Medical, Dental, or Optometry Students

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 armed services courses, International Baccalaureate credit, and credit by portfolio, the limit is no more than 45 semester hours.

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.

Bachelor's Degree with Honors

Students who complete their degree requirements with a higher education grade point average between 3.50 and 3.69 will receive their degrees cum laude. Those with higher education grade point averages between 3.70 and 3.89 receive degrees designated magna cum laude. Students with higher education grade point averages of 3.90 or above will receive degrees designated summa cum laude. The higher education grade point average used in conferring academic honors at graduation includes work at UAB as well as all other higher education work attempted.

Procedures for Applying for a Degree

Students are advised to file an official 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. Application forms are available in the Office of Registration and Academic Records.

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 May and December, students receive their diplomas approximately four weeks after the end of the regular term in which they complete their degree requirements.

Exceptions

All students are responsible for adhering to UAB's academic policies, as published in the UAB Undergraduate Catalog and the current UAB Class Schedule. 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 for exceptions to academic policies should be submitted in writing along with supporting documentation noted above to the:

Office of Academic Programs and Policy
470 Hill University Center
University of Alabama at Birmingham 35294-1150
Attention: Exceptions to Academic Policy

Requests are evaluated only from written documentation and not through appointments or telephone calls. (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 outlines in the UAB Catalog and the UAB Class Schedule) does not qualify under this policy as an Academic Exception.

Core Curriculum Requirements

The Core Curriculum consists of 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. See the appropriate section in this catalog for specific major requirements in each area.

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 and EH 102 with the grade of C or better.

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:

AAS 200	Introduction to African American Studies	3 hours	GN 101	Introductory German I	4 hours
ARA 101	Introductory Arabic I	3 hours	GN 102	Introductory German II	4 hours
ARA 102	Introductory Arabic II	3 hours	GN 201	Intermediate German I	3 hours
ARH 101	The Art Experience	3 hours	GN 202	Intermediate German II	3 hours
ARH 203	Ancient and Medieval Art	3 hours	GN 204	Readings in German Literature	3 hours
ARH 204	Renaissance through Modern Art	3 hours	ITL 101	Introductory Italian I	3 hours
ARH 206	Survey of Asian Art	3 hours	ITL 102	Introductory Italian II	3 hours
CHI 101	Introductory Chinese I	3 hours	JPA 101	Introductory Japanese I	3 hours
CHI 102	Introductory Chinese II	3 hours	JPA 102	Introductory Japanese II	3 hours
CM 101	Public Speaking	3 hours	LA 101	Introductory Latin I	3 hours
CM 105	Introduction to Human Communication	3 hours	LA 102	Introductory Latin II	3 hours
EH 216	Introduction to Literature	3 hours	MU 120	Music Appreciation	3 hours
EH 217	World Literature	3 hours	PHL 100	Introduction to Philosophy	3 hours
EH 218	World Literature	3 hours	PHL 115	Contemporary Moral Issues	3 hours
EH 221	British and Irish Literature	3 hours	PHL 116	Bioethics	3 hours
EH 222	British and Irish Literature	3 hours	PHL 120	Practical Reasoning	3 hours
EH 223	American Literature	3 hours	PHL 125	Introduction to Ethics	3 hours
EH 224	American Literature	3 hours	PHL 203	Philosophy of Religion	3 hours
FLL 120	Foreign Cultures	3 hours	SPA 101	Introductory Spanish I	4 hours
FLL 220	Foreign Literatures in English Translation	3 hours	SPA 102	Introductory Spanish II	4 hours
FR 101	Introductory French I	4 hours	SPA 201	Intermediate Spanish I	3 hours
FR 102	Introductory French II	4 hours	SPA 202	Intermediate Spanish II	3 hours
FR 105	Introduction to Intensive French	4 hours	SPA 108	Introduction to Intensive Spanish	4 hours
FR 201	Intermediate French I	3 hours	THR 100	Introduction to Theatre	3 hours
FR 202	Intermediate French II	3 hours	THR 105	Introduction to Dance	3 hours
			THR 200	Plays on Film	3hours

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.

The following courses satisfy Area III of the Core Curriculum:

AST 101 and 111	Astronomy of the Universe and Laboratory	4 hours
AST 102 and 112	Astronomy of Stellar Systems and Laboratory	4 hours
AST 103 and 113	Astronomy of the Solar System and Laboratory	4 hours
AST 105 and 115	Extraterrestrial Life and Laboratory	4 hours

BY 101 and 102	Topics in Contemporary Biology and Laboratory	4 hours
BY 111 and 112	Extended Topics in Contemporary Biology and Laboratory	4 hours
BY 123	Introductory Biology	4 hours
BY 124	Introductory Biology	4 hours
CH 105 and 106	Introductory Chemistry I and Laboratory	4 hours
CH 107 and 108	Introductory Chemistry II and Laboratory	4 hours
CH 115 and 116	General Chemistry I and Laboratory	4 hours
CH 117 and 118	General Chemistry II and Laboratory	4 hours
ENV 108 and 109	Human Population & the Earth's Environment and Laboratory	4 hours
ES 101 and 102	Physical Geology and Laboratory	4 hours
ES 103 and 104	History of the Earth and Laboratory	4 hours
MA 105	Pre-calculus Algebra	3 hours
MA 106	Pre-calculus Trigonometry	3 hours
MA 107	Trigonometry	4 hours
MA 109	Survey of Calculus	3 hours
MA 110	Finite Mathematics	3 hours
MA 125	Calculus I	4 hours
MA 126	Calculus II	4 hours
MA 227	Calculus III	4 hours
MA 252	Introduction to Differential Equations	3 hours
MA 260	Introduction to Linear Algebra	3 hours
PH 201	College Physics I	4 hours
PH 202	College Physics II	4 hours
PH 221	General Physics I	4 hours
PH 222	General Physics II	4 hours
PHS 101	Physical Science	4 hours

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:

ANTH 101	Introductory Cultural Anthropology	3 hours	HY 121	The United States Since 1877	3 hours
ANTH 106	Introductory Archaeology	3 hours	ITS 101	Introduction to International Studies	3 hours
ANTH 120	Language and Culture	3 hours	PSC 101	Introduction to American Government	3 hours
EC 210	Principles of Microeconomics	3 hours	PSC 102	Introduction to Comparative Politics	3 hours
EC 211	Principles of Macroeconomics	3 hours	PSC 103	Introduction to International Relations	3 hours
GEO 121	World Regional Geography	3 hours	PSC 221	American State and Local Government	3 hours
HY 101	Western Civilization I	3 hours	PY 101	Introduction to Psychology	3 hours
HY 102	Western Civilization II	3 hours	PY 212	Developmental Psychology	3 hours
HY 104	World History to 1600	3 hours	SOC 100	Introduction to Sociology	3 hours
HY 105	World History, 1600 to present	3 hours	SOC 245	Contemporary Social Problems	3 hours
HY 120	The United States to 1877	3 hours	WS 100	Introduction to Women's Studies	3 hours

Satisfying Core Curriculum Requirements with Alternative Credit

Students may satisfy certain goals of the Core Curriculum 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 Academic Programs and Policy, 470 Hill University Center, 1400 University Boulevard, (205) 934-5503, for evaluation and acceptance before credit can be posted on the UAB transcript.

Who is Required to Fulfill the Core Requirements?

1. First time college freshmen who have no credit for college work (excepting credit earned while still enrolled in high school);
2. Those returning UAB students or transfer students who are enrolling as a degree student after an absence from college of more than 12 months;
3. 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.

School-wide Requirements

In addition to fulfilling UAB's Core Curriculum as described above, students with majors in many schools must satisfy school-wide requirements. Please consult the appropriate school section of this catalog for these specific requirements.

School of Arts and Humanities

Dean: Bert Brouwer
Associate Dean: Catherine Daniélou

The School of Arts and Humanities offers Bachelor of Arts degree programs with majors in African American studies, art (with concentrations in art education, art history, and art studio), communication studies (with concentrations in communication management and mass communication), English (also with concentrations in creative writing, linguistics, and professional writing and public discourse), Foreign Languages (with concentrations in French and Spanish), music (also with concentrations in music education and music technology), philosophy (also with concentration on philosophy and political economy), and theatre (also with concentrations in pre-professional performance and design/technology). The Bachelor of Fine Arts degree is offered in studio art. Minors may be taken in the following fields: African American studies, American studies, art history, art studio, Chinese, communication management, creative writing, English, film, French, German, Japanese, linguistics, mass communication, music, music technology, philosophy (including philosophy and law), professional writing, Spanish, theatre, and writing.

Available through the school are performing ensembles of the Department of Music, including the Blazer Band, Brass Ensemble, Chamber Singers, Clarinet Choir, 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 Music Group, Piano Ensemble, Symphony Band, Tuba Ensemble, Women's Chorale, and Wind Symphony, as well as performances by the Department of Theatre, including four touring ensembles and a five-production main stage season.

Programs of graduate study leading to the degree of Master of Arts are available in the Department of Communication Studies (Communication Management) and in the Department of English (Composition/Rhetoric, Creative Writing, and Literature). A program of graduate study leading to the degree of Master of Arts in art history is offered jointly by the Departments of Art of UAB and the University of Alabama. The Master of Arts in Arts Education with a Specialization in Music Education is available in conjunction with the School of Education and leads to an advanced certification (Class A) in the state of Alabama.

CORE CURRICULUM FOR ARTS & HUMANITIES

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses (must earn a C or better): **EH 101** **EH 102**	6
Area II: Literature	Select one of the following courses: **EH 216** **EH 218** **EH 222** **EH 224** **EH 217** **EH 221** **EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101** **ARH 204** **MU 120** **THR 105** **ARH 203** **ARH 206** **THR 100** **THR 200**	3
Area II: Fine Arts/Humanities	Select two of the following courses: **AAS 200** **EH 216** **FR 102** **MU 120** **SPA 102** **ARA 101** **ITL 201** **ARH 101** **EH 217** **FR 201** **PHL 100** **SPA 201** **ARA 102** **JPA 101** **ARH 203** **EH 218** **FR 202** **PHL 115** **SPA 202** **CHI 101** **JPA 102** **ARH 204** **EH 221** **GN 101** **PHL 116** **THR 100** **CHI 102** **JPA 201** **ARH 206** **EH 222** **GN 102** **PHL 120** **THR 105** **CHI 201** **JPA 202** **AS 200** **EH 223** **GN 201** **PHL 125** **THR 200** **CHI 202** **CM 101** **EH 224** **GN 202** **PHL 203** **FLL 120** **ITL 101** **CM 105** **FR 101** **GN 204** **SPA 101/SPA 111** **FLL 220** **ITL 102**	6
Area III: Mathematics	Select one of the following courses: **MA 105** **MA 107** **MA 110** **MA 126** **MA 252** **MA 106** **MA 109** **MA 125** **MA 227** **MA 260**	3

Area III: Natural Sciences	Select two of the following courses (with laboratories): **AST 101/AST 111** **CH 115/CH 116** **AST 102/AST 112** **CH 117/CH 118** **AST 103/AST 113** **ENV 108/ENV 109** **AST 105/AST 115** **ES 101/ES 102** **BY 101/BY 102** **ES 103/ES 104** **BY 111/BY 112** **PH 201/PH 201L** **BY 123** **PH 202/PH 202L** **BY 124** **PH 221/PH 221L** **CH 105/CH 106** **PH 222/PH 222L** **CH 107/CH 108** **PHS 101**	8
Area IV: History	Select one of the following courses: **HY 101** **HY 102** **HY 105** **HY 120** **HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101** **EC 211** **HY 120** **PSC 121** **PY 212** **ANTH 106** **GEO 121** **HY 121** **PSC 122** **SOC 100** **ANTH 120** **HY 101** **ITS 101** **PSC 212** **SOC 245** **EC 210** **HY 102** **ITS 205** **PY 101** **WS 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101** **EC 211** **PSC 101** **PY 212** **ANTH 106** **GEO 121** **PSC 102** **SOC 100** **ANTH 120** **ITS 101** **PSC 221** **SOC 245** **EC 210** **ITS 205** **PY 101** **WS 100**	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218** **HY 101 + HY 102** **EH 221 + EH 222** **HY 120 + HY 121** **EH 223 + EH 224**	-
	Total Core Curriculum Requirements:	**41**

SCHOOL-WIDE REQUIREMENTS FOR ARTS & HUMANITIES

Requirement	Fulfilled By:	Hrs.
School-Wide Requirements:	Students must satisfy two of the three tracks listed below. A student may NOT use the same course to satisfy this requirement and other requirements within the core curriculum; however, a course may apply toward this requirement and a requirement within the major.	6
Track A: Foreign Language and Culture	Track A may be satisfied by completing one of the following courses: **ANTH 101** **FR 106** **FR 320** **HY 258** **SPA 202** **CHI 102** **ANTH 106** **FR 108** **GN 102** **HY 263** **SPA 206** **CHI 201** **ANTH 120** **FR 201** **GN 201** **HY 265** **SPA 210** **CHI 202** **ANTH 241** **FR 202** **GN 202** **JS 115** **SPA 300** **CHI 203** **ANTH 243** **FR 210** **GN 203** **PY 213** **SPA 304** **CHI 206** **ANTH 244** **FR 220** **GN 204** **PY 319** **SPA 310** **ITL 102** **ANTH 248** **FR 305** **GN 205** **SOC 200** **SPA 311** **ITL 201** **ANTH 249** **FR 306** **GN 206** **SOC 325** **SPA 312** **JPA 102** **ARH 203** **FR 307** **HY 245** **SPA 102** **SPA 313** **JPA 201** **ARH 205** **FR 308** **HY 247** **SPA 108** **SPA 314** **JPA 202** **ARH 206** **FR 310** **HY 248** **SPA 180** **ARA 102** **JPA 203** **FLL220** **FR 311** **HY 257** **SPA 201** **ARA 201** **JPA 204** **FR 102**	-
Track B: Philosophy and Critical Reasoning	Track B may be satisfied by completing one of the following courses: **PHL 100** **PHL 204** **PHL 233** **PHL 314** **PHL 348** **PHL 115** **PHL 205** **PHL 239** **PHL 315** **PHL 350** **PHL 116** **PHL 208** **PHL 240** **PHL 335** **PHL 372** **PHL 125** **PHL 215** **PHL 270** **PHL 341** **PHL 375** **PHL 135** **PHL 230** **PHL 305** **PHL 342** **PSC 104** **PHL 203** **PHL 232** **PHL 343** **PHL 343**	-
Track C: Computers	Track C may be satisfied by completing one of the following courses (alternatively, students may satisfy this track by completing a computer technologies competency examination, where permissible; this option will reduce the number of hours required in the School-Wide Require- **ARS 103** **CS 101** **HY 125** **MU 115** **BY 245** **CS 201** **MA 261**	-
	TOTAL SCHOOL-WIDE REQUIREMENTS HOURS:	**6**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives for Majors in the School of Arts & Humanities	A student must take general electives to add up to 120 semester hours. No more than 12 semester hours in courses taken principally to gain experience, or which involve technology to a large degree, will be counted toward elective credit in the School of Arts & Humanities. In addition, no more than 4 semester hours in physical education activity courses will be counted toward elective credit in the school.

Restrictions on Applicable Credit

No more than 12 semester hours in courses taken principally to gain experience, or which involve technology to a large degree, will be counted toward elective credit in the School of Arts and Humanities. In addition, no more than four semester hours in physical education activity courses will be counted toward elective credit in the school. Students should consult the department in which they are majoring for advice on choosing electives that contribute to a liberal education or career objectives.

When a course is normally offered at UAB, that course may not be taken for credit at another institution (including cooperative institutions) while a student is simultaneously enrolled at UAB, without approval by the dean.

Courses counted toward one major or minor may be applied to meet the requirements of another major or minor if both are within the School of Arts and Humanities. 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.

First Year Experience

The School of Arts and Humanities offers one-credit First Year Experience courses introducing freshmen to an education in the Humanities and the different disciplines that we offer, in the context of the university. FYE courses (ARS 160, FLL 120, HUM 160, MU 160, THR 160) are meant to help prepare students for a successful collegiate career.

HUM 160 - First Year Experience in HUM - 1
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.

Freshman Honors Seminar (HUM)

The following course is open to all students and is intended to provide an interdisciplinary honors experience to freshman students.

HUM 120 - Introductory Humanities Seminar - 3
Special topics to introduce students to the study of the humanities.

African American Studies

Interdisciplinary Program

Interim Director: Dellita Martin-Ogunsola (Foreign Languages and Literatures)
Faculty: Fouad (Medicine), Hall (Theatre), Huntley (History), Ibelema (Communication Studies), Jolly (Public Health), Lewis (Political Science), Morgan (Justice Sciences), Musa (Marketing), Panion (Music), V. Smith, (English), Taylor (Anthropology), Turner (Music), Wood (English)

African American Studies is an interdisciplinary liberal arts degree program sponsored jointly by the Schools of Arts and Humanities, Natural Sciences and Mathematics, and Social and Behavioral Sciences. The program integrates the humanities, social and behavioral sciences, and health-related fields. It is designed to provide a comprehensive understanding of the cultural values and experiences that connect people of African descent, beginning in Africa and extending to the Caribbean, the Americas, Asia, Australia and Europe.

The major in African American Studies consists of 39 hours, including 30 hours of required courses and 9 hours of electives, with at least three 400-level courses. Elective courses may be a combination of two concentrations--cultural/aesthetic and social/behavioral areas. *No grade below C may be counted as credit toward the major or minor in African American Studies*.

MAJOR IN AFRICAN AMERICAN STUDIES

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **AAS 200 AAS 320 AAS 330 AAS 420 AAS 490**	15
Required EH Course	**EH 301**	3
English Courses	Select two of the following courses: **EH 365 EH 423 EH 447 EH 467** **EH 366 EH 445 EH 448 EH 468** **EH 422 EH 446 EH 466**	6
History Courses	Select two of the following courses: **HY 223 HY 224 HY 304**	6
African-American Studies Electives	Select three of the following courses: **AAS 250 ARH 205 PSC 318** **AAS 300 ARH 405 PY 413** **AAS 310 JS 442 PY 420** **AAS 340 MC 493 SOC 250** **AAS 400 MU 165 SOC 350** **ANTH 244 MU 365 THR 300**	9
	Total Major Requirements:	**39**

MINOR IN AFRICAN AMERICAN STUDIES

Requirement	Fulfilled By:	Hrs.
Minor Requirements	Take all of the following courses: **AAS 200 AAS 310 AAS 330** **AAS 300 AAS 320 AAS 420**	18
	Total Minor Requirements:	**18**

Course Descriptions
African American Studies (AAS)

AAS 165 - Jazz Style: History and Appr - 3
American jazz with emphasis on instrumental and vocal performers, jazz bands, and combos. Development of big band, swing, and popular music.

AAS 200 - Intro African-American Studies - 3
Development of African states during early, colonial, and contemporary periods. Survey of mainland Africa and its expressions in the Diaspora--particularly African American cultures in the New World. Majors and minors in African American Studies should complete this course before enrolling in any higher lever AAS course. *Prerequisites:* EH 101 and EH 102

AAS 224 - African Amer History from 1865 - 3
Survey of late 19th century to present African American history.

AAS 250 - Spec Topics African-Amer Stud - 3
Specific topic in African American Studies. *Prerequisite:* AAS 200

AAS 300 - African American Music - 3
Survey, history and appreciation of African music and its presence in the United States from its earliest forms in spirituals, blues and jazz to contemporary forms of be-bop and rap. *Prerequisite:* AAS 200

AAS 310 - Black Image: Screen and TV - 3
History and definition of the image of the African-ancestored people in the United States through cinema and television. *Prerequisite:* AAS 200

AAS 320 - African Identity/Personality - 3
African identity and definition of blackness. *Prerequisite:* AAS 200

AAS 330 - African Aesth/Trad Relig - 3
African aesthetics, African cosmology, and qualities of African spirituality. *Prerequisite:* AAS 200

AAS 340 - Medieval African Technology - 3
Development, evolution, and impact of foundational African technology on contemporary inventions in architecture, engineering, and medicine. *Prerequisite:* AAS 200

AAS 360 - African-American Creative Exp - 3
Contributions of African Americans to theatre and dance. Creative process and application of creative process through live performance. *Prerequisites:* THR 100 or THR 200 or THR 235

AAS 366 - African American Literature II - 3
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 and EH 102 and AAS 200

AAS 400 - Sem in African Amer Studies - 3
Specific topic in African American Studies. *Prerequisites*: AAS 200 and 9 hours of AAS 300-level courses, or permission of the AAS Director.

AAS 420 - Pub Hlth/Med Issues in Africa - 3
Critical health issues affecting the African and African American communities including HIV, AIDS, cancer, diabetes, stroke, heart disease/hypertension, malaria. *Prerequisites*: AAS 200 and 9 hours of AAS 300 level courses, or permission of the AAS Director.

AAS 448 - African American Poetry Tradit - 3
Development of African American poetry from its early works to the present, including Wheatley, Dumbar, Hughes, Brooks, and Angelou. *Prerequisites:* EH 101 and EH 102

AAS 468 - The Harlem Renaissance - 3
Black writers during Harlem Renaissance movement. Includes Johnson, Toomer, Murray, Larsen, McKay, Thurman, Reed, and Morrison. *Prerequisites:* EH 101 and EH 102

AAS 490 - Directed Study - 3
An individually designed course for semi-independent research or guided readings in areas and subjects otherwise unavailable. May be repeated for credit, but topics may not be repeated. *Prerequisites:* AAS 200 and 9 hours of AAS 300 level courses or permission from the AAS Director.

American Studies
Interdisciplinary Program

Director: Deborah Littleton (Social and Behavioral Sciences)
Executive Committee: McPherson (Art), McWilliams (History), Wharton (English)

The American Studies Program offers, through the School of Arts and Humanities and the School of Social and Behavioral 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, 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.

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **AS 201** **AS 202**	6
Music and the Arts	Select one of the following courses: **ARH 101** **ARH 250** **ARH 455** **ARH 464** **ARH 467** **ARH 485** **ARH 491** **MU 165** **MU 364** **THR/MU 260** **THR/EH 368**	3
Literature and Philosophy	Select one of the following courses: **PHL 348** **EH 214** **EH 223** **EH 224** **EH 361** **EH 366** **EH 367** **EH /THR 368** **EH 369** **EH 461** **EH 462** **EH 463** **EH 464** **EH 465** **EH 466** **EH 468**	3
Social and Behavioral Sciences	Select one of the following courses: **ANTH 222** **ANTH 240** **ANTH 241** **ANTH 406** **ANTH 455** **ANTH 456** **EC 413** **PSC 101** **PSC 450** **SOC 270** **SOC 275** **SOC 316** **SOC 336** **SOC 350** **SOC 470** **SW 217** **SW 203** **SW 302**	3

History	Select one of the following courses: **HY 120** **HY121** **HY 223** **HY 224** **HY 226** **HY 303** **HY 305** **HY 403** **HY 411** **HY 412** **HY 414** **HY 417** **HY 427** **HY 429** **HY 435** **HY 438**	3
Senior Seminar in American Studies	Take the following class: **AS 401**	3
	Total Major Requirements:	21

Course Descriptions
American Studies (AS)

AS 301 - Studies in American Culture - 3
Team-taught, interdisciplinary study of American society and culture through selected readings from American literature and history, as well as other texts from art, music, industrial and technological developments, and folk and popular culture. Specific topics vary with instructors; materials for study include cultural experiences and expressions of diverse groups within American society including Native Americans, African Americans, immigrants, and women.

AS 401 - Senior Sem in American Studies - 3
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, AS 202, and 12 hours of approved AS electives or permission of instructor.

Film
Interdisciplinary Minor

Director: Lee Shackleford (Theater)
Committee: Bokobza (Foreign Languages), Lowther (Art), Forman (Anthropology, Urban Affairs), Hubbard (Theatre), Mack (Communication Studies), Millard (History), Siegel (English)

The Interdisciplinary Film Minor is a 21-hour, individualized program culminating in a capstone experience. Students are required to take courses in each of three categories: (1) Critical and Theoretical Analysis, (2) Technical Applications, and (3) Creative Content. A student will choose a course sequence from electives that will specialize the minor towards film studies or the production of experimental, documentary, or narrative film. Courses must be taken from a minimum of three departments. A capstone course is required of all Film Minor students.

MINOR REQUIREMENTS FOR FILM STUDIES

Requirement	Fulfilled By:	Hrs.
Critical and Theoretical analysis electives	Select one to three from the following courses: **AAS 310** **EH 210** **MC/FLL 304** **HY 311/DCS 201** **THR 200** **ANTH 123** **EH 431** **HY 207/307** **HY 431** **ARS 458** **MC/FLL 303** **HY 309** **MC 102**	**3-9**
Technical Application Electives	Select one to three from the following courses: **ARS 406/DCS 402** **MC 375** **MC 483** **MU 411** **MC 373** **MC 384** **MU 245**	**3-9**
Creative Content Electives	Select one to three from the following courses: **ARS 407/DCS 402** **MC 385** **THR 316** **THR 477** **ARS 454** **THR 216/MC 216** **THR 377**	**3-9**
Required Capstone Course	Take one of the following courses after all other required courses (18 hours) are completed: **EH 499** **ARS 488** **DCS 460** **MC 499**	**3**
	Total Minor Requirements:	**21**

International Studies
Interdisciplinary Program

For a complete description of the interdisciplinary International Studies Program see page 387, sponsored jointly by the School of Arts and Humanities and the School of Social and Behavioral Sciences.

Department of Art & Art History

Chair: Erin Wright
Associate Chair: Jessica Dallow
Faculty: Alexander, Barrett, Baulos, Brouwer, Chapman, Cracco, Cummings, Dallow, Dillon (Emeritus), Kluge (Emerita), Lowther, McIver, McPherson, Powers, Rieger, Schnorrenberg (Emeritus), Wright.

The Department of Art and Art History curricula offers an educated appreciation of the history and creative processes of the visual arts. Students learn the intellectual, cultural, and aesthetic worth of art through research, critical thinking and art making. Art History courses foster knowledge of classic and contemporary works; Art Studio courses propagate artistic skills. These classes contribute to students' abilities to advocate the cultural importance and aesthetic concerns of their field.

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 three areas of concentration: Art Studio, Art History and Art Education. The B.F.A. requires an Art Studio major and an Art History minor. The department also awards a Master of Arts in Art History in conjunction with the University of Alabama at Tuscaloosa.

The School of Education offers a Master of Arts in Arts Education; students pursuing this degree can choose a concentration of Art or Art History.

Suggested Core Curriculum Fulfillment

In all major options, the entering first-year, full-time student should take one or two of ARH 203 and 204 in partial satisfaction of Area II of the Core Curriculum and two or three of ARS 100, 101, 102, 103 and 200. ARS 103 will satisfy one area of the Arts and Sciences requirement.

Requirements: Major in Art with Art History 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.

MAJOR REQUIREMENTS FOR ART HISTORY

Requirement	Fulfilled By:	Hrs.
Art Survey	Take all of the following courses: **ARH 203 ARH 204 ARH 206** *Note: Completing any of the courses above will automatically satisfy Track A of the School-Wide Requirements.*	9
Art Studio Requirement	Select two of the following courses: **ARS 100 ARS 101 ARS 102 ARS 103** *Note: If **ARS 103** is taken, this requirement as well as Track C of the School-Wide Requirements will both be satisfied.*	6
Asian/Non-Western Art	Select one of the following courses: **ARH 205 ARH 471 ARH 475 ARH 479** **ARH 405 ARH 473 ARH 477** **ARH 470 ARH 474 ARH 478**	3
Renaissance and Baroque	Select one of the following courses: **ARH 421 ARH 423 ARH 431** **ARH 422 ARH 424 ARH 435**	3
Eighteenth and Nineteenth Century	Select one of the following courses: **ARH 430 ARH 440 ARH 441 ARH 450**	3
Twentieth Century/ Contemporary	Select one of the following courses: **ARH 460 ARH 465 ARH 468 ARH 485** **ARH 464 ARH 467 ARH 480**	3
Art History Level Requirement	12 hours of the **Art History (ARH)** courses selected to fulfill requirements listed above must be at the 400-level. This level requirement may not be satisfied by courses taken as major elective requirements listed below.	-

Art History Elective	Select four courses from **Art History (ARH)** courses at the 400-level.: **ARH 405 ARH 430 ARH 460 ARH 471 ARH 479 ARH 491** **ARH 407 ARH 431 ARH 464 ARH 473 ARH 480 ARH 492** **ARH 421 ARH 435 ARH 465 ARH 474 ARH 482** **ARH 422 ARH 440 ARH 467 ARH 475 ARH 485** **ARH 423 ARH 441 ARH 468 ARH 477 ARH 487** **ARH 424 ARH 450 ARH 470 ARH 478 ARH 490**	12
Art History/Art Studio Elective	Select one course from **Art History (ARH)** or **Art Studio (ARS)**: **ARS 100 ARS 340 ARS 410 ARS 480 ARH 450 ARH 492** **ARS 101 ARS 341 ARS 420 ARS 487 ARH 460** **ARS 102 ARS 342 ARS 422 ARS 488 ARH 464** **ARS 103 ARS 351 ARS 430 ARS 489 ARH 465** **ARS 170 ARS 350 ARS 440 ARS 490 ARH 467** **ARS 200 ARS 352 ARS 441 ARS 492 ARH 468** **ARS 210 ARS 355 ARS 442 ARS 493 ARH 470** **ARS 220 ARS 362 ARS 450 ARS 495 ARH 471** **ARS 230 ARS 365 ARS 451 ARH 101 ARH 473** **ARS 240 ARS 370 ARS 452 ARH 405 ARH 474** **ARS 241 ARS 372 ARS 454 ARH 407 ARH 475** **ARS 250 ARS 373 ARS 455 ARH 421 ARH 477** **ARS 270 ARS 374 ARS 457 ARH 422 ARH 478** **ARS 298 ARS 375 ARS 458 ARH 423 ARH 479** **ARS 300 ARS 376 ARS 459 ARH 424 ARH 480** **ARS 302 ARS 387 ARS 473 ARH 430 ARH 482** **ARS 310 ARS 395 ARS 474 ARH 431 ARH 485** **ARS 320 ARS 400 ARS 475 ARH 435 ARH 487** **ARS 330 ARS 406 ARS 476 ARH 440 ARH 490** **ARS 335 ARS 407 ARS 479 ARH 441 ARH 491**	3
Foreign Language Requirement	Select one of the following courses (alternatively, students may receive equivalent placement; this option reduces the credit hours of this requirement to zero): **FR 102 GR 102 CHI 102 JPA 102**	4
	Total Major Requirements:	**46**

Requirements: 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.

MAJOR REQUIREMENTS FOR B.A. in ART STUDIO (must earn a C or better)

Requirement	Fulfilled By:	Hrs.
Required Art Studio	Take all of the following courses: **ARS 100 ARS 101 ARS 102 ARS 103 ARS 200** *Note: Completing this requirement will automatically satisfy Track C of the School-Wide Requirements.*	15
Art History Survey	Select one of the following courses: **ARH 203 ARH 204 ARH 206** *Note: ARH 203 will also satisfy Core Curriculum Area II: Fine Arts. ARH 204 and ARH 206 will also satisfy Track A of the School-Wide Requirements.*	3
Sculpture	Select one of the following courses: **ARS 220 ARS 230**	3
Introductory Art Studio Topics	Select one of the following courses: **ARS 210 ARS 240 ARS 250 ARS 270**	3
200-level Art Studio Elective	Select one other 200-level from the following courses: **ARS 210 ARS 230 ARS 241** **ARS 220 ARS 240 ARS 250**	3

300-level Art Studio Elective	Select three of the following courses in two different fields of study: (ARS 350, 351, 352, 355, 362, 370 and 375 may only be taken once for credit. All other 300 level courses may be taken once or twice for three semester hours of credit each time, and must be taken twice before taking the 400 level course for which they are prerequisite. Art studio majors may not take any 300 level course until they have completed ARS 100, 101, 102 and 103.) **ARS 300 ARS 335 ARS 350 ARS 370 ARS 376** **ARS 302 ARS 340 ARS 352 ARS 372 ARS 387** **ARS 310 ARS 341 ARS 355 ARS 373 ARS 395** **ARS 320 ARS 342 ARS 362 ARS 374** **ARS 330 ARS 351 ARS 365 ARS 375**	9
400-level Requirement	9 hours of art courses at the 400-level must be taken at UAB. It is recommended that either the art studio or art history elective be at least a 400 level.	-
400-level Art Studio Elective	Select one of the following courses: (Most 400 level courses may be taken one to three times for 3 semester hours of credit each time. ARS 489 and 491 may be taken only once for 3 hours credit. ARS 490 may be taken multiple times for a total maximum of 9 hours. For the graphic design emphasis, ARS 451, 459 and 490 may be taken twice for credit, but only a maximum of 9 hours can be taken in any combination of these courses. Other than these courses and ARS 458, no other graphic design courses may be repeated for credit.) **ARS 400 ARS 440 ARS 455 ARS 476 ARS 492** **ARS 406 ARS 441 ARS 457 ARS 479 ARS 493** **ARS 407 ARS 442 ARS 458 ARS 480 ARS 495** **ARS 410 ARS 450 ARS 459 ARS 487** **ARS 420 ARS 451 ARS 473 ARS 488** **ARS 422 ARS 452 ARS 474 ARS 489** **ARS 430 ARS 454 ARS 475 ARS 490**	3
Art Studio Elective	Select one **Art Studio (ARS)** course. **ARS 100 ARS 300 ARS 365 ARS 422 ARS 474** **ARS 101 ARS 302 ARS 370 ARS 430 ARS 475** **ARS 102 ARS 310 ARS 372 ARS 440 ARS 476** **ARS 103 ARS 320 ARS 373 ARS 441 ARS 479** **ARS 170 ARS 330 ARS 374 ARS 442 ARS 480** **ARS 200 ARS 335 ARS 375 ARS 450 ARS 487** **ARS 210 ARS 340 ARS 376 ARS 451 ARS 488** **ARS 220 ARS 341 ARS 387 ARS 452 ARS 489** **ARS 230 ARS 342 ARS 395 ARS 454 ARS 490** **ARS 240 ARS 351 ARS 400 ARS 455 ARS 492** **ARS 241 ARS 350 ARS 406 ARS 457 ARS 493** **ARS 250 ARS 352 ARS 407 ARS 458 ARS 495** **ARS 270 ARS 355 ARS 410 ARS 459** **ARS 298 ARS 362 ARS 420 ARS 473**	3
Twentieth Century/ Contemporary	Select one of the following courses (ARH 490 must be approved): **ARH 460 ARH 465 ARH 468 ARH 485** **ARH 464 ARH 467 ARH 480 ARH 490**	3
Art History Elective	Select one of the following courses: **ARH 101 ARH 421 ARH 440 ARH 468 ARH 479** **ARH 203 ARH 422 ARH 441 ARH 470 ARH 480** **ARH 204 ARH 423 ARH 450 ARH 471 ARH 482** **ARH 205 ARH 424 ARH 460 ARH 473 ARH 485** **ARH 206 ARH 430 ARH 464 ARH 474 ARH 487** **ARH 405 ARH 431 ARH 465 ARH 475 ARH 490** **ARH 407 ARH 435 ARH 467 ARH 478**	3
	Total Major Requirements:	**48**

Requirements: Major in Art with Art Education 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.

MAJOR REQUIREMENTS FOR ART EDUCATION

Requirement	Fulfilled By:	Hrs.
GPA Requirement	Art Education majors are required to have an overall 2.5 GPA. Additionally, students must have a 2.5 in the Core Curriculum, in Pre-TEP courses, and in Teaching Field (**Art History (ARH)**, **Art Studio (ARS)** and **Art Education (EDA)**) courses.	
Required Psychology	Take the following course: **PY 101** *Note: This course will satisfy this requirement and may also be applied to Core Curriculum Area IV.*	3
Ancient and Medieval Art	Take the following courses: **ARH 203** *Note: Completing this requirement will automatically satisfy the Area II: Fine Arts Requirement or Track A of the School Wide Requirements.*	3
Required Art Studio	Take all of the following courses (must earn a C or better): **ARS 100 ARS 101 ARS 102 ARS 103 ARS 200** *Note: Completing this requirement will automatically satisfy Track C of the School-Wide Requirements.*	15
Art History Survey	Take both of the following courses: **ARH 204 ARH 206** *Note: Completing ARH 204 will also satisfy the Core Curriculum Area II: Fine Arts requirement. Completing ARH 206 will also satisfy Track A of the School-Wide Requirements.*	6
Sculpture	Select one of the following courses: **ARS 220 ARS 230**	3
Foundations (Pre-TEP)	Take all of the following courses (with at least a 2.5 GPA): **ECY 300 EDT 300 EPR 363** **EDF 362 EDU 200 HPE 200**	15
Teacher Education Program (TEP) Requirements	Students must complete all of the courses above before qualifying for admission to the TEP. Students must be admitted to the TEP before enrolling in the courses below unless otherwise noted. Students should also take care to satisfy the TEP Retention Requirements and the TEP Completion Requirements while completing the coursework below.	-
Professional Studies	Take all of the following courses (with at least a 2.5 GPA): **EHS 401 EHS 402 EHS 410**	7
Art Education	Take all of the following courses: **EDA 483 EDA 484 EDA 489 EDA 490**	14
200-level Teaching Field Courses	Take all of the following courses (with at least a 2.5 GPA): **ARS 210 ARS 240/241 ARS 250 ARS 270**	12
300-level Teaching Field Courses	Select four of the following courses (with at least a 2.5 GPA): **ARS 300 ARS 310 ARS 330 ARS 342 ARS 351/352** **ARS 302 ARS 320 ARS 340/341 ARS 350 ARS 370**	12
400-level Teaching Field Courses	Select two of the following courses (students must complete six hours of 300-level **Art Studio (ARS)** courses in one area before enrolling in these courses): **ARS 400 ARS 420 ARS 440 ARS 475** **ARS 410 ARS 430 ARS 450**	6
Contemporary Art and Architecture	Select one of the following courses: **ARH 460 ARH 465 ARH 468 ARH 485** **ARH 464 ARH 467 ARH 480**	3
	Total Major Requirements:	**99**

Requirements: Major in Art with B.F.A. (2008-2009)

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, and 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 School of Arts and Humanities applicable to the B.F.A. degree. In Area II students should consider taking both ARH 203 and 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.**

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, and/or photography. 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 prior to graduation and only after all academic requirements for graduation have been successfully completed. 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 B.F.A. IN ART STUDIO

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.

Requirement	Fulfilled By:	Hrs.
Required Art Studio Courses	Take all of the following courses: *NOTE: **ARS 103** will also satisfy Track C of the School-Wide Requirements.* **ARS 100 ARS 101 ARS 102 ARS 103 ARS 200**	15
Sculpture	Select one of the following courses: **ARS 220 ARS 230**	3
Introductory Art Studio Topics	Select two of the following courses: **ARS 210 ARS 240 ARS 250 ARS 270**	6
200-level Art Studio Elective	Select one 200-level **Art Studio (ARS)** course: **ARS 210 ARS 230 ARS 241 ARS 270** **ARS 220 ARS 240 ARS 250 ARS 298**	3
300-level Advanced Electives	Select six courses from three different fields of study from the following list (ARS 350, 351, 352, 355, 362, 370 and 375 may only be taken once for credit. All other 300 level courses may be taken once or twice for three semester hours of credit each time, and must be taken twice before taking the 400 level course for which they are prerequisite. Art studio majors may not take any 300 level course until they have completed ARS 100, 101, 102 and 103): **ARS 300 ARS 335 ARS 350 ARS 370 ARS 376** **ARS 302 ARS 340 ARS 352 ARS 372 ARS 387** **ARS 310 ARS 341 ARS 355 ARS 373 ARS 395** **ARS 320 ARS 342 ARS 362 ARS 374** **ARS 330 ARS 351 ARS 365 ARS 375**	18

400-level Advanced Electives	Select four courses from 400-level ARS courses (students must complete six hours of 300-level **Art Studio (ARS)** courses in one area before enrolling in these courses): **ARS 400** **ARS 440** **ARS 455** **ARS 476** **ARS 492** **ARS 406** **ARS 441** **ARS 457** **ARS 479** **ARS 493** **ARS 407** **ARS 442** **ARS 458** **ARS 480** **ARS 495** **ARS 410** **ARS 450** **ARS 459** **ARS 487** **ARS 420** **ARS 451** **ARS 473** **ARS 488** **ARS 422** **ARS 452** **ARS 474** **ARS 489** **ARS 430** **ARS 454** **ARS 475** **ARS 490**	12
Professional Requirements	Take both of the following courses (Graphic Design students should take ARS 452 all others should take ARS 489): **ARS 489/452** **ARS 491**	6
General Art Studio Electives	Select three **Art Studio (ARS)** courses. *NOTE: If **ARS 103** is taken, this requirement will also satisfy Track C of the School-Wide Requirements.* **ARS 100** **ARS 300** **ARS 365** **ARS 422** **ARS 474** **ARS 101** **ARS 302** **ARS 370** **ARS 430** **ARS 475** **ARS 102** **ARS 310** **ARS 372** **ARS 440** **ARS 476** **ARS 103** **ARS 320** **ARS 373** **ARS 441** **ARS 479** **ARS 170** **ARS 330** **ARS 374** **ARS 442** **ARS 480** **ARS 200** **ARS 335** **ARS 375** **ARS 450** **ARS 487** **ARS 210** **ARS 340** **ARS 376** **ARS 451** **ARS 488** **ARS 220** **ARS 341** **ARS 387** **ARS 452** **ARS 489** **ARS 230** **ARS 342** **ARS 395** **ARS 454** **ARS 490** **ARS 240** **ARS 351** **ARS 400** **ARS 455** **ARS 492** **ARS 241** **ARS 350** **ARS 406** **ARS 457** **ARS 493** **ARS 250** **ARS 352** **ARS 407** **ARS 458** **ARS 495** **ARS 270** **ARS 355** **ARS 410** **ARS 459** **ARS 298** **ARS 362** **ARS 420** **ARS 473**	9
BFA required Art History Minor	The required 18 semester hours in art history are distributed as follows: six semester hours from ARH 203, ARH 204 or ARH 206; six semester hours from 400 level Western or Non-Western (antiquity – 18th century) selections from relevant catalog offerings; three semester hours from contemporary 400 level offerings; three semester hours from 19th and 20th Century offerings.	-
Art History Survey	Select two of the following courses: *Note: ARH 203 will also satisfy Core Curriculum Area II: Fine Arts. ARH 204 and ARH 206 will also satisfy Track A of the School-Wide Requirements.* **ARH 203** **ARH 204** **ARH 206**	6
Western or Non-Western (antiquity – 18th century)	Select two of the following courses: **ARH 405** **ARH 422** **ARH 430** **ARH 470** **ARH 474** **ARH 475** **ARH 407** **ARH 423** **ARH 431** **ARH 471** **ARH 477** **ARH 479** **ARH 421** **ARH 424** **ARH 435** **ARH 473** **ARH 478**	6
Contemporary Art History	Select one of the following courses: **ARH 464** **ARH 465** **ARH 480**	3
19th and 20th Century Art History	Select one of the following courses: **ARH 440** **ARH 450** **ARH 467** **ARH 471** **ARH 485** **ARH 441** **ARH 460** **ARH 468** **ARH 479**	3
	Major Requirements:	**72**
	Minor Requirements:	**18**
	Total Requirements:	**90**

Requirements: Minor in Art History (2008-2009)

Requirement	Fulfilled By:	Hrs.
Required Course	Take the following course: **ARH 204**	3
Ancient Medieval Art/ Asian Art	Select one of the following courses: **ARH 203 ARH 205 ARH 206**	3
Art History Electives	Select four of the following courses: **ARH 101 ARH 424 ARH 450 ARH 470 ARH 478** **ARH 405 ARH 430 ARH 460 ARH 471 ARH 479** **ARH 407 ARH 431 ARH 464 ARH 473 ARH 480** **ARH 421 ARH 435 ARH 465 ARH 474 ARH 482** **ARH 422 ARH 440 ARH 467 ARH 475 ARH 485** **ARH 423 ARH 441 ARH 468 ARH 477 ARH 490**	12
	Total Minor Requirements:	**18**

Requirements: Minor in Art Studio (2008-2009)

Requirement	Fulfilled By:	Hrs.
Introductory Art Studio	Take three of the following courses: **ARS 100 ARS 101 ARS 102 ARS 103**	9
Beginning Art Studio	Select two of the following courses: **ARS 200 ARS 220 ARS 240 ARS 270** **ARS 210 ARS 230 ARS 250**	6
Intermediate Art Studio	Select one of the following courses: **ARS 300 ARS 330 ARS 341 ARS 355** **ARS 310 ARS 335 ARS 350 ARS 370** **ARS 320 ARS 340 ARS 352**	3
Art History Survey	Take the following course: **ARH 204**	3
Art History Elective	Select one of the following courses: **ARH 460 ARH 465 ARH 468 ARH 485** **ARH 464 ARH 467 ARH 480**	3
	Total Minor Requirements:	**24**

Course Descriptions
Art History (ARH)

ARH 101 - The Art Experience - 3
Introduction to the study of visual culture, prehistoric to present. Emphasis on form and context, and acquiring understanding of art materials and techniques.

ARH 203 - Ancient and Medieval Art - 3
A survey of Prehistoric, Ancient, Near Eastern, Egyptian, Aegean, Greek, Roman, Hiberno-Saxon, Carolingian, Ottonian, Romanesque, and Gothic art.

ARH 204 - Renaissance through Modern Art - 3
A survey of Renaissance, Baroque, Rococo, late Eighteenth, Nineteenth, and Twentieth Century art.

ARH 205 - Africa/Native Amer/Oceanic Art - 3
Significant monuments and styles of these tribal cultures.

ARH 206 - Survey of Asian Art - 3
Art and culture of India, China, and Japan.

ARH 405 - African Art - 3
African Art. *Prerequisites:* ARH 203 or ARH 204

ARH 407 - Roman Art - 3
Art of Roman world from republic to late empire with emphasis on Roman art in Italy. *Prerequisite:* ARH 203

ARH 421 - Renaiss Art Italy: 1300-1480 - 3
Painting, sculpture, and architecture with an emphasis on the artistic centers of Florence, Venice, Rome, and Siena. *Prerequisite:* ARH 204

ARH 422 - Renaiss Art Italy: 1480-1580 - 3
Painting, sculpture, and architecture, with an emphasis on the artistic centers of Florence, Venice, Rome, and Milan. *Prerequisite:* ARH 204

ARH 423 - Study Abroad: Art in Italy - 3
On-site study of works of art and architecture in Italy, 1300-1650.

ARH 424 - Renaiss Painting in N Europe - 3
Paintings in Holland, Belgium, and Germany, 1350-1550. *Prerequisite:* ARH 204

ARH 430 - 18th Century Art in Europe - 3
Visual culture in eighteenth-century Britain and France, including study of eighteenth-century holdings in Birmingham Museum of Art. *Prerequisite:* ARH 204

ARH 435 - Southern Baroque Art - 3
Painting, sculpture, and architecture, with an emphasis on the artistic centers of Rome, Florence, and Venice and painting in Spain, 1580-1680. *Prerequisite:* ARH 204

ARH 440 - 19th c Art I: Neoclas/Romantic - 3
Painting, sculpture and graphic arts Europe, 1780-1860. *Prerequisite:* ARH 204

ARH 441 - 19th c Art II: Impres/Post-Imp - 3
Painting. sculpture and graphic arts in Europe, 1860-1900. *Prerequisite:* ARH 204

ARH 450 - American Art to 1900 - 3
Painting, sculpture, and architecture in the U.S., with an emphasis on 19th Century. *Prerequisite:* ARH 204

ARH 460 - Twentieth-Century Art to 1945 - 3
Painting, sculpture, and architecture in Europe and the United States, 1900-1945. *Prerequisite:* ARH 204

ARH 464 - Art Since 1945 - 3
Painting, sculpture, and architecture in Europe and the United States, 1945 to present. *Prerequisite:* ARH 204

ARH 465 - Aspects of Contemporary Art - 3
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. *Prerequisite:* ARH 204

ARH 467 - Modern Architecture - 3
Chiefly twentieth century architecture emphasizing the United States. *Prerequisite:* ARH 204

ARH 468 - Race and Representation - 3
History of 20th-Century African American art in context of contemporary theories of identity and in relation to African art. Includes study of objects in the Birmingham Museum of Art. *Prerequisite:* ARH 204

ARH 470 - The Art and Culture of China - 3
An in-depth survey of the art and culture of China from the Neolithic era through the eighteenth century. *Prerequisite:* ARH 206

ARH 471 - Topics in Asian Cinema - 3
This course offers students an introduction to a vital aspect of contemporary Asian culture, recognizing that film can be an important locus 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. *Prerequisite:* ARH 206

ARH 473 - Japanese Prints/Printmakers - 3
A history of Japanese block prints and printmakers from seventeenth through twentieth centuries. *Prerequisite:* ARH 206

ARH 474 - Chinese Painting - 3
Painting and painting theory through eighteenth century. *Prerequisite:* ARH 206

ARH 475 - Japanese Art - 3
Art and culture, Neolithic era through nineteenth century. *Prerequisite:* ARH 206

ARH 477 - Art and Architecture of India - 3
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. *Prerequisite:* ARH 206

ARH 478 - Buddhist Arts of Asia - 3
Study of Buddhist art and architecture in Asia, with an emphasis on the original context and function of painting, sculpture, and monuments. The specific historical and cultural theme will vary with each course offering. *Prerequisite:* ARH 206

ARH 479 - Art & Culture of Asia: Study Abroad - 3
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
Critical theory and contemporary issues focusing on art from 1960s to the present. *Prerequisite:* ARH 204

ARH 482 - Topics in Art History - 3
Study of thematic topics throughout art history. *Prerequisites:* ARH 203 or ARH 204 or ARH 206

ARH 485 - Museum Studies - 3
Museum operation; organization and preparation of exhibitions; cataloging objects in collection; experience with UAB Visual Arts Gallery and Birmingham Museum of Art. *Prerequisite:* ARH 204

ARH 487 - Field Study - 3
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. *Prerequisite:* ARH 204

ARH 490 - Seminar in Art History - 3
Prerequisites: ARH 203 or ARH 204 or ARH 206

ARH 491 - Art History Problems - 1 to 4
Project proposed by student and approved by art history instructor. *Prerequisite:* Permission of Instructor

ARH 492 - Museum Internship - 3
Through active participation in the daily operations of one or more curatorial departments, students will acquire direct working knowledge of museums through a program of internships at cooperating institutions. The student will be required to work at the institution a minimum of 12 supervised hours per week during the term. *Prerequisite:* Permission of Instructor

Course Descriptions
Art Studio (ARS)

ARS 100 - Introduction to Drawing - 3
Various media, methods, subject matter, and vocabulary emphasizing contour, gesture, composition, and value using pencil, charcoal, conte' crayon, and ink.

ARS 102 - Intro Three-Dimensional Design - 3
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 - Intro Computer Graphics/Layout - 3
Concepts, hardware, and software programs with specific application to drawing and page layout on Macintosh personal computer.

ARS 160 - FYE in Art and Art History - 1
The objective of this course is to introduce incoming freshman to an education in art in the context of the university. It is meant to help prepare students for a successful collegiate career in the study of art.

ARS 170 - Intro Digital Photo Manipulat - 3
Concepts, hardware, and software programs with specific applications to creative photo manipulation on personal computer. *Prerequisite:* ARS 103

ARS 200 - Beginning Drawing - 3
Exploration of media, techniques, and concepts as they relate to drawing from diverse subject matter. *Prerequisite:* ARS 100

ARS 210 - Beginning Painting - 3
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. *Prerequisites:* ARS 100 and ARS 101

ARS 220 - Beginning Sculpture - 3
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. *Prerequisite:* ARS 102

ARS 230 - Beginning Ceramic Sculpture - 3
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. *Prerequisite:* ARS 102

ARS 240 - Beginning Printmaking - 3
Investigation of basic Intaglio techniques such as metal plate etching and engraving along with basic printing processes. *Prerequisites:* ARS 100 and ARS 101 and ARS 200

ARS 241 - Beginning Lithography - 3
Investigation of basic lithographic techniques such as stone printing, litho crayon drawing, tusche washes, mono-printing processes. *Prerequisites:* ARS 100 and ARS 101 and ARS 200

ARS 250 - Introduction to Graphic Design - 3
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 and ARS 101 and ARS 102 and ARS 103

ARS 260 - Intro to Time Based Media - 3
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, keframe, 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.

ARS 270 - Beginning Photography - 3
Photography and photographic process including film development, print techniques, and camera controls emphasizing black-and-white photography as a creative medium. A 35-mm camera recommended. *Prerequisite:* ARS 101

ARS 280 - Introduction to Time Based Med - 3
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 (Pudovkin's and subsequent additions such as montage, intercutting and smash cut). Demonstration and lecture will be supplemented with clips from films to illustrate technique.

ARS 300 - Intermediate Drawing - 3
Descriptive, expressive, and abstract approaches using variety of media. *Prerequisite:* ARS 200

ARS 302 - Figure Drawing - 3
Concepts and techniques of drawing in various media from live model. *Prerequisite:* ARS 200

ARS 310 - Intermediate Painting - 3
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. *Prerequisite:* ARS 210

ARS 320 - Intermediate Sculpture - 3
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. *Prerequisites:* ARS 102 and ARS 220

ARS 330 - Intermediate Ceramic Sculpture - 3
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. *Prerequisites:* ARS 102 and ARS 230

ARS 340 - Intermediate Printmaking - 3
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. *Prerequisite:* ARS 240

ARS 341 - Intermediate Lithography - 3
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. *Prerequisite:* ARS 241

ARS 342 - Experimental Printmaking - 3
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 and (ARS 240 or ARS 241)

ARS 350 - Intermediate Graphic Design - 3
Type and image explorations in design and design history research. *Prerequisite:* ARS 250

ARS 351 - Tech Process for Graph Design - 3
Comping, presentation skills, and project development. Emphasis on printing technology. *Prerequisites:* ARS 103 and ARS 250

ARS 352 - Typography - 3
Study of expressive type, symbols, and typographic layout through studio assignments. *Prerequisites:* ARS 103 and ARS 250

ARS 355 - Interactive Design - 3
Concepts and skills in interactive media as applied to web design and animation that focus on graphic design. *Prerequisites:* ARS 250 and ARS 350

ARS 360 - Intermediate Time Based Media - 3
Intermediate time based media is a video course in which students continue to advance their video capturing and editing skills. Student will be introduced to alternative and experimental narrative structures. Students will also continue their audio capturing and editing techniques.

ARS 362 - Creative Strategy Ad Design - 3
Creative concepts and strategy for design of advertising campaigns. Research and presentations. *Prerequisites:* ARS 350 and EH 102

ARS 365 - Illustration - 3
Studio projects that explore variety of illustration techniques and professional issues. *Prerequisites:* ARS 200 and (ARS 250 and ARS 260)

ARS 370 - Intermed Photography Level I - 3
This course is the first of a two-part intermediate sequence. The course will focus on the mastery of skills that were introduced in Beginning Photography such as camera controls, print quality and photographic imagery. The course will introduce new types of film and papers, it will cover archival toning, night photography, color slide film and hand coloring. There will be an emphasis on improving print quality and understanding natural light. *Prerequisite:* ARS 270

ARS 372 - Digital Photographic Imagery - 3
Concepts, hardware, and software programs with specific application to various forms of digital photographic manipulation. *Prerequisites:* ARS 170 and ARS 270

ARS 373 - Spec Topics/Technique in Photo - 3
The course material will be determined by the instructor. Examples may include mural printing, documentary photography, the manipulated print, platinum printing, pinhole photography, or view camera construction and use. *Prerequisites:* ARS 270 and ARS 370

ARS 374 - Photography: Lighting/Studio - 3
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 270 and ARS 370 and ARS 375

ARS 375 - Intermed Photography Level II - 3
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. *Prerequisite:* ARS 370

ARS 376 - Color Photo/Fine Art Dig Print - 3
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 and ARS 370

ARS 387 - Field Study in Art Studio - 3
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. *Prerequisite:* ARS 200

ARS 400 - Advanced Drawing - 3
Emphasis on in-depth projects using expressive approaches to drawing with a variety of media. *Prerequisite:* ARS 300

ARS 406 - Digital Filmmaking - 3
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 - 3
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
Individualized coursework allowing personalized course objectives approved by instructor based on previous work. *Prerequisites:* ARS 310 and ARS 310

ARS 420 - Advanced Sculpture - 3
Advanced studies in sculptural methods and processes with an emphasis on in-depth individually generated projects. *Prerequisites:* ARS 102 and ARS 320

ARS 422 - Sculpture Internship - 3
Advanced independent study working directly with knowledgeable and qualified arts professionals in a sculptural discipline. *Prerequisite:* ARS 102

ARS 430 - Advanced Ceramic Sculpture - 3
Advanced studies in the use of clay as a sculptural medium with emphasis on in-depth individually generated projects. *Prerequisites:* ARS 102 and ARS 320

ARS 440 - Advanced Printmaking - 3
Advanced Intaglio techniques such as color processes, along with basic photographic printmaking processes. *Prerequisite:* ARS 340

ARS 441 - Advanced Lithography - 3
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 170 and ARS 241 and ARS 341

ARS 442 - Adv Experimental Printmaking - 3
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 170 and ARS 342

ARS 450 - Advanced Graphic Design - 3
Advanced type, layout and image explorations, and design history research. *Prerequisites:* ARS 350 and ARS 351 and (ARS 352 or ARS 355).

ARS 451 - Adv Graphic Design Projects - 3
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. *Prerequisite:* ARS 450

ARS 452 - Graphic Design Portfolio - 3
Portfolio preparation and presentation. Re-working of some old projects and addition of new. Resume and job interview skills emphasized. *Prerequisite:* ARS 350

ARS 454 - Multimedia Productions - 3
Concepts and skills explored as design/art direction components in collaborative project format. Interrelates with music, theatre, and broadcasting. *Prerequisites:* ARS 355 and ARS 450 and MC 101

ARS 455 - Advanced Interactive Design - 3
Advanced concepts and skills in development of web-page design. *Prerequisites:* ARS 355 and ARS 450 and MC 101

ARS 457 - Advanced Advertising Design - 3
Community-based projects specific to advertising. Portfolio building and presentations. *Prerequisite:* ARS 357

ARS 459 - Graphic Design Field Intern - 3
Work in approved graphic design office under guidance of field supervisor and Department of Art and Art History instructor. *Prerequisites:* ARS 350 and ARS 351

ARS 473 - Photography: Topics/Techniques - 3
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 270 and ARS 370 and (ARS 374 or ARS 375)

ARS 474 - Photography: Lighting/Studio - 3
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 270 and ARS 370 and ARS 375

ARS 475 - Advanced Photography - 3
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. *Prerequisite:* ARS 375

ARS 476 - Color Photo/Fine Art Dig Print - 3
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 270 and ARS 370 and ARS 375

ARS 478 - Photography Internship - 3
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.

ARS 479 - Studio Internship Photography - 3
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.

ARS 480 - Prac in Art Studio Management - 3
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
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. *Prerequisite:* ARS 200

ARS 488 - Seminar in Time Based Media - 3
Specialized advanced studio problems in time based media. *Prerequisites:* ARS 100 and ARS 101 and ARS 102 and ARS 103

ARS 489 - Professional Artist Seminar - 3
Explore and develop skills for managing ones career as a professional artist.

ARS 490 - Ind Advanced Study Studio Art - 1 to 9
May be repeated for credit.

ARS 491 - B.F.A. Exhibition - 3
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 Internship - 3
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
Advanced independent study with direct working knowledge of the studio arts with qualified Art Conservation professionals.

ARS 495 - Seminar in Art Studio - 3
Specialized advanced studio problems with permission of the instructor. *Prerequisites:* ARS 100 and ARS 101 and ARS 102 and ARS 103

Department of Communication Studies

Chair: Virginia P. Richmond
Associate Chair: William Self
Faculty: Amsbary, Betros, Bodon, Hickson, Ibelema, McCroskey, Mack, Merrill, Neiva, Powell, Self, Wittig

The Department of Communication Studies is concerned with human interaction and communication in all of its forms. The department offers majors in Communication Management and Mass Communication. The latter requires students to specialize in broadcasting, journalism, or public relations.

The Communication Management major 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 also available in Communication Management.

The Mass Communication major allows students to specialize in journalism, broadcasting, or public relations. Minors are available in each of the specialization areas of Mass Communication. Students may pursue a double major in two Mass Communication degree concentrations. Students may also major in one specialization and minor in another. A minor is required for a degree from this department.

Students interested in studying communication should consult the department chair as well as the requirements set by the School of Arts and Humanities.

Communication Management Concentration

To receive a major in communication studies, a student must complete 40 hours, including at least 15 semester hours of CM courses numbered 300–499 at UAB, approved by a departmental advisor, and earn a grade point average of at least 2.25 in these approved hours. No course in which a grade below C has been earned may be counted toward the completion of the major or minor. Students must achieve a 2.25 cumulative grade point average in the major.

Students who wish to apply credit by portfolio, credit by examination, or credit for armed services courses toward a major or minor must contact the department at least six months prior to graduation.

MAJOR IN COMMUNICAITON STUDIES WITH COMMUNICATION MANAGEMENT CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **CM 105 CM 494 CM 498 MC 101** *Note: Completion of CM 105 automatically satisfies the Core Curriculum Area II Speech requirement.*	10

Major Electives	Select 30 hours from **Communication Management (CM)** courses. **CM 112 CM 301 CM 305 CM 309 CM 310 CM 311 CM 315** **CM 320 CM 322 CM 356 CM 380 CM 401 CM 402 CM 411** **CM 413 CM 414 CM 415 CM 455 CM 460 CM 480 CM 481** **CM 490 CM 493 MC 339 MC 400 MC 495**	30
	Total Requirements:	**40**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	Completion of a minor is required for this degree

MINOR REQUIREMENTS FOR COMMUNICATION MANAGEMENT

Requirement	Fulfilled By:	Hrs.
Required Courses	Take Both **CM 105 CM 310**	6
Communication Management Electives	*Select 15 hours from 300-level or above Communication Management (CM) courses* **CM 301 CM 305 CM 309 CM 311 CM 315 CM 322 CM 356** **CM 380 CM 400 CM 401 CM 402 CM 405 CM 411 CM 413** **CM 414 CM 415 CM 455 CM 460 CM 480 CM 481 CM 490** **CM 492 CM 493 CM 494 CM 498 MC 320 MC 339 MC 400** **MC 495**	15
	Total Requirements:	**21**

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 concentrating in one of the mass communication specializations may also major or minor in communication management.

Requirements for Major or Minor in Mass Communication

A major requires 42 hours. A minor concentration requires 21 semester hours including MC 101, MC 106, and 15 semester hours of courses numbered 300-499 recommended by the departmental advisor.

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 and film 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 many "publics." The program stresses writing, oral, and analytical skills.

MAJOR REQUIREMENTS FOR COMMUNICATION STUDIES WITH MASS COMMUNICATION - BROADCASTING CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **CM 105 CM 311 MC 101 MC 106 MC 370 MC 371 MC 372** **MC 373 MC 383 MC 400 MC 494 MC 498 MC 495** *Note: Completion of CM 105 automatically satisfies the Core Curriculum Area II Speech requirement.*	37
Mass Media Internship	Take 2 hours in the following course **MC 391**	2

Major Electives	Select 3 hours of 300-level or 400-level Communication Management (CM) or Mass Communication (MC) courses (that are not required). **CM 301 CM 305 CM 309 CM 315 CM 322 CM 356 CM 380** **CM 401 CM 402 CM 411 CM 413 CM 414 CM 415 CM 455** **CM 480 CM 481 CM 490 CM 493 CM 494 CM 498 MC 306** **MC 310 MC 320 MC 339 MC 340 MC 341 MC 342 MC 343** **MC/CM 356 MC/CM 455 MC/CM 490 MC 492**	3
	Total Requirements:	**42**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	Completion of a minor is required for this degree

MAJOR REQUIREMENTS FOR COMMUNICATION STUDIES WITH MASS COMMUNICATION - JOURNALISM CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **CM 105 MC 306 MC 360 MC 495 MC 101 MC 310 MC 400** **MC 498 MC 106 MC 350 MC 494** *Note: Completion of CM 105 automatically satisfies the Core Curriculum Area II Speech requirement.*	31
Mass Media Internship	Take 2 hours in the following course **MC 391**	2
Major Electives	Select 3 hours of 300-level or 400-level Communication Management (CM) or Mass Communication (MC) courses (that are not required). **CM 301 CM 305 CM 309 CM 315 CM 322 CM 356 CM 380** **CM 401 CM 402 CM 411 CM 413 CM 414 CM 415 CM 455** **CM 480 CM 481 CM 490 CM 493 CM 494 CM 498 MC 306** **MC 310 MC 320 MC 339 MC 340 MC 341 MC 342 MC 343** **MC/CM 356 MC/CM 455 MC/CM 490 MC 492**	9
	Total Requirement:	**42**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	Completion of a minor is required for this degree

MAJOR REQUIREMENTS FOR COMMUNICATION STUDIES WITH MASS COMMUNICATION - PUBLIC RELATIONS CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **CM 105 MC 339 MC 342 MC 495 MC 101 MC 340 MC 400** **MC 498 MC 106 MC 341 MC 494** *Note: Completion of CM 105 automatically satisfies the Core Curriculum Area II Speech requirement.*	31
Mass Media Internship	Take 2 hours in the following course **MC 391**	2
Writing	Select One of the Following Courses **MC 310 MC 360**	3
Major Electives	Select 3 hours of 300-level or 400-level Communication Management (CM) or Mass Communication (MC) courses (that are not required). **CM 322 CM 311 MC 373* MC 320 MC/CM 356 MC 391** ** If completed MC 341*	6
	Total Requirement:	**42**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	Completion of a minor is required for this degree

MINOR REQUIREMENTS FOR MASS COMMUNICATION

Requirement	Fulfilled By:	Hrs.
Required Courses	Take Both **MC 101 MC 106**	6
Communication Management Electives	*Select 15 hours from 300-level or above Communication Management (CM) courses* **MC 306 MC 310 MC 320 MC 339 MC 340 MC 341 MC 342** **MC 343 MC 343 MC/CM 356 MC 360 MC 370 MC 371 MC 372** **MC 373 MC 383 MC 400 MC/CM 455 MC 483 MC 492 MC 493** **MC 494 MC 495 MC 498**	15
	Total Requirement:	**21**

Course Descriptions
Communication Management (CM)

CM 101 - Public Speaking - 3
Effective public speaking. Analysis, research, organization, delivery, to enhance speaking performance.

CM 103 - Prof Conduct and Comm Ethics - 3
Ethical questions in communication today. Ethical dimension of decision making process in communication and basic issues in professional conduct for media.

CM 105 - Intro to Human Communication - 3
Communication and persuasion as ideas in Western thought, ranging from Greek to contemporary period.

CM 112 - Relational Communication - 3
Communication process in various interpersonal settings. Basic communication concepts and their application to communication skills in such areas as one-to-one communication, person perception, and conflict management.

CM 305 - Advanced Communication Theory - 3
Major theoretical approaches to issues involved in human communication. Various psychological and sociological conceptualizations of communication process.

CM 309 - Interviewing - 3
Theory and practice in various types of interviews, such as employment, counseling, research, and journalistic.

CM 310 - Group Decision Making in Org - 3
Theories of small group communication and practice in decision making in various group formats as part of organizational structure.

CM 311 - Organizational Communication - 3
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.

CM 315 - Communication Leadership/Mgmt - 3
Theory and research on leadership and communication management. Specific attention to contexts in which leaders and managers function.

CM 322 - Argumentation Theory - 3
Bases of argument and nature of issues in controversy. Evidence, logic, refutation, and argumentative formats. Recommended for pre-law as well as general students.

CM 339 - Intro to Public Relations - 3
Survey of public relations in the United States. Relationships among marketing, advertising and public relations.

CM 356 - Propaganda/Public Persuasion - 3
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.

CM 380 - Health and Med Communication - 3
Bases of theory and practice of communication in health-care setting. Emphasis on communication contexts and relationships.

CM 400 - Professional Presentations - 3
Advanced speaking and delivery techniques in professional settings. Audience analysis, professional delivery, research, and application of theories of persuasion.

CM 401 - Instructional Communication - 3
Communication problems in the classroom. Translation of data into lecture discussion. Empirical research on verbal and non-verbal elements of effective presentation.

CM 402 - Human Comm in Everyday Life - 3
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.

CM 405 - Contemp Philosophies of Comm - 3
Twentieth-century systems of Western rhetoric. Concepts selected from among works of Burke, Weaver, Toulmin, Perelman, Richards, and McLuhan.

CM 411 - Seminar in Organizational Comm - 3
Theory and research in communication audits of organizations. *Prerequisite:* CM 311

CM 413 - Nonverbal Communication - 3
Elements of nonverbal behavior (physical appearance, gestures, space, voice) which affect communication in person-to-person situations.

CM 414 - Language and Thought - 3
Semiotics and communication. Definition of sign and sign process. Cognitive processes and communication processes. Signs in communicative action.

CM 455 - Sem in Political Communication - 3
Emerging cross-disciplinary field of political communication. Literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communication.

CM 458 - Communication Criticism - 3
Rhetorical systems for appraising persuasive messages and campaigns in twentieth century.

CM 460 - Comm/Soc Movements in America - 3
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.

CM 480 - Health and Medical Comm Sem - 3
Advanced communication theory and research in health-care setting. Impact of interpersonal, organizational, and mass communication policy in field of human health and medicine.

CM 481 - Communication and Aging - 3
Biological, neurological, and socio-psychological effects of aging on communication process. Communication with elderly in various health and medical contexts.

CM 490 - Media Citizenship - 3
Quantitative and qualitative measures of media content in television, film, magazines, newspapers, and computing networks.

CM 492 - Independent Study - 1 to 3
Topics of mutual interest to student and faculty member.

CM 493 - Spec Topics Communication Arts - 1 to 3
Topics selected by faculty.

CM 494 - Communication Research Methods - 3
Research questions, design, methodology, data gathering, and analysis. Practice in conducting, interpreting, and communicating research findings to public.

CM 495 - Communication Arts Seminar - 1 to 3

CM 498 - Seminar in Communication - 1
Completed paper in major area of study crossing divisional lines.

Course Descriptions
Mass Communication (MC)

MC 101 - Survey of Mass Communication - 3
Processes, uses, and effects of media messages in society. History, structure, and functioning of newspapers, books, magazines, radio, television, cinema, and recording industry.

MC 102 - Introduction to Cinema - 3
Analysis of film processes, understanding of film as art form, and perspectives from the camera as well as editing, directing, screenplay, production, and distribution.

MC 106 - News writing and Reporting I - 3
Recognizing news, interviewing, reporting, and writing news for print.

MC 216 - Beginning Screenwriting - 3
Study and practicum in writing scripts for TV and film with emphasis on creating works for production and/or sale.

MC 298 - Intro Technology in the Arts - 3
Applications of computer-based technology to the arts: music, theatre, video, and visual arts. Demonstrations of multimedia capabilities.

MC 303 - Hist World Movies I: to 1960 - 3
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.

MC 304 - Hist World Mov II: from 1960 - 3
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 film makers of the last forty years.

MC 306 - Public Affairs Reporting - 3
Gathering and writing in-depth news; covering courts, police, schools, and county and city governments. *Prerequisite:* MC 106

MC 310 - News writing and Reporting II - 3
Practice in gathering and writing news, with experience in writing under pressure of deadlines and covering beats. *Prerequisite:* MC 106

MC 316 - Advanced Screenwriting - 3
Advanced study and practicum in writing feature-length screenplays, with emphasis on creating works for production, sale and/or publication.

MC 320 - Intro to Ad in Mass Media - 3
Survey of methods, techniques, and strategy involved in creating an advertising campaign.

MC 339 - Intro to Public Relations - 3
Survey of field of public relations in the United States. Relationships among marketing, advertising, and public relations.

MC 340 - Public Relations Principles - 3
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:* MC 106 and MC 339

MC 341 - Public Relations Methods I - 3
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. *Prerequisite:* MC 340

MC 342 - Public Relations Campaigns - 3
National and local programs that illustrate good and bad practices. Student teams research, plan, and design public relations campaign for client. *Prerequisites:* MC 340 and MC 341

MC 343 - Public Relations Methods II - 3
Graphics, brochure and newsletter design, slide shows, broadcast PSAs, and multimedia presentations. *Prerequisites:* MC 340 and MC 341

MC 350 - Newspaper Editing and Design - 3
News selection, copy editing, picture editing, and headline writing. *Prerequisite:* MC 106

MC 356 - Propaganda/Public Persuasion - 3
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.

MC 360 - Feature Writing - 3
Finding subjects, collecting information, interviewing, writing, and marketing magazine and newspaper features.

MC 361 - Magazine Editing/Production - 3
Principles and practice in story selection, copy editing, copy fitting, picture editing, cropping, and caption writing.

MC 370 - Fundamentals of Broadcasting - 3
Broadcasting technology, history of radio and television, economics of broadcasting, government regulation of industry, and assessment of medium in society.

MC 372 - News writing for Broadcasting - 3
Information gathering for electronic media with emphasis on writing for ear and eye. *Prerequisites:* MC 101 and MC 106

MC 400 - Mass Communication Law - 3
Legal limitations and privileges affecting publishing and broadcasting. Major court decisions. Fair comment, libel, right of privacy, fairness doctrine, and license renewal.

MC 401 - Game of Life: Roles of Edu - 3
This seminar will be conducted in three phases. First, students will provide supported responses to the following areas of inquiry: (1A) What are the theoretical and practical values of various educational credentials (e.g., high school diplomas through terminal degrees, with emphasis on the former)? (1B) What is the most essential information for high-school graduates to possess when they make the transition from formal students to the next stages of their lives? (1C) What are the responsibilities of the governmental bodies regarding provision of the most essential information (as determined in the previous question), as future members of the economic system? The second phase will include a supported position paper regarding the following (IIA) To what extent, if any, does a level playing field (i.e., equal opportunities for everyone in the United States) depend upon a rudimentary understanding of certain laws--the rules for the game of life? (IIB) What aspects of life such as freedom rights, property rights, relationships, agreements, safety, among other needs and desires, that are affected by laws should people reasonably expect a K-12 education to provide? (IIC) Students will be expected to generalize from available literature to determine whether there are conscious and/or subconscious assumptions that people have to be lucky or inherit riches to have a change to achieve proportionately to their potentials in modern America. The remainder of the term will be devoted to exploring and addressing the following questions. (IIIA) What course content could provide high school students with the most essential information regarding basic laws and the legal systems that they are likely to encounter? This question is intended to focus on the legal information that would aid in the transitions from formal students to the next stages of their lives? Emphasis will be placed on avoiding criminal records and preparing students to compete in a nation of laws, even when no funds are available for legal counsel. The research paper will address a minimum of the following: (IIIA) Ideally, at what level of middle and/or high school should the course or courses be offered? (IIIB) What are some possible reasons that the government has not mandated these types of courses? (IIIC) Address the probability that the power structure in the United States has historically seen the educational system (especially high school but also college) as a means for providing "workers", but few "real competitors". That is, has the playing field for the game of life in America depended on ignorance of the law and its consequences as a means of ensuring that a large portion of the workforce can rise no higher than certain points? It is clear that ignored rights, criminal records, adverse civil judgments, victimization by criminals ranging from identity thieves to murderers, and the like, will slow or stop many from competing. However, missed opportunities, failure to seek legal advice, taking unnecessary chances, poor decision-making, the inability to determine how to seek the most competent or specialized legal advice, among many other consequences of a curriculum that guarantees ignorance of the law, will stop many from preserving or waiving their rights. In a nation of laws, it is curious why students are taught almost every topic imaginable, except rudimentary courses on laws, ignorance of which has never been acknowledged as a defense in American common law jurisprudence. *Prerequisites:* MC 400

MC 430 - Electronic Media Management - 3
Organizational structures and business policies of radio, television, and cable companies. Planning basic program structures fro broadcast and cable operations with consideration of audience requirements, FCC policy, and competitive market.

MC 441 - Multimedia Production - 3
Techniques for producing programming, utilizing personnel and equipment from music, theatre, graphic design, and related fields. Emphasis on computer-based technologies.

MC 455 - Sem in Political Communication - 3
Emerging cross-disciplinary field of political communication. Review of literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communication.

MC 483 - Television Production III - 3
Single camera video production in the narrative (fictional) and/or documentary genre. *Prerequisite:* MC 383

MC 490 - Media Citezenship - 3
Quantitative and qualitative measures of media content in television, film, magazines, newspapers, and computing networks.

MC 492 - Independent Study - 1 to 3
Topics of mutual interest to student and faculty member.

MC 493 - Spec Topics Mass Communication - 1 to 3
Topics selected by faculty.

MC 494 - Communication Research Methods - 3
Research questions, design, methodology, data gathering, and analysis. Practice in conducting, interpreting, and communicating research findings to public.

MC 495 - Mass Media and Society - 3
History of mass communication and research from 1940s to present. Transactional model of communication and symbolic-interactionist perspective used among other approaches to evaluate role of mass media in twentieth Century America.

MC 498 - Seminar in Communication - 1
Completed paper in major area of study crossing divisional lines

MC 499 - Capp/Narrative Video Production - 3
This course follows Narrative Video Production I and II as a capstone of the Narrative genre in filmmaking. Students who have completed 18 hours in the Film Minor curriculum will work in teams or individually to produce a 12-15 minute video project. *Prerequisites: (*MC 216 or TH 216) and MC 375 and MC 385

Department of English

Chair: Peter J. Bellis
Faculty: Anderson, Bach, Baker, Basilico, Bellis, Blacksher, Blythe, Braswell, Butcher, Chapman, Collins, Cuevas, Ellis, Frost, Graves, Griffith, Grimes, Haddin (Emeritus), Haggerty (Emeritus), Harris, Hoff, Hutchings, Jolly, Kim, Kurata, Long (Emerita), McComiskey, Mersmann (Emeritus), Pruett, Quinlan, Rushton, Ryan, Siegel, Slaughter, Smith, C. Temple, G. Temple, Tintocalis, Treutel, Vines, Wharton, Wood, Young
Director, Graduate Studies: Kyle Grimes
Director, Undergraduate Studies: Alison Chapman
Director, Creative Writing: Daniel Anderson
Director, English Resource Center: Tracey Baker
Director, Freshman Composition and Developmental Program: Peggy Jolly
Director, Linguistics: David Basilico

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 also offers an English major with a concentration in professional writing and public discourse, an English major with a concentration in creative writing, and an English major with a concentration in linguistics. The Department of English also offers courses leading to the Master of Arts degree in English. Further information may be obtained from the department chair or the UAB Graduate School Catalog.

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 a Senior 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 literatures, and world literatures; creative writing; linguistics; or 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, an accomplishment that enhances any résumé.

Eligibility

To be eligible for the Honors Program in English, a student must be enrolled full-time as a UAB English major, have earned a 3.5 GPA in English courses taken and a 3.0 GPA overall, and have completed at least EH 101 and EH 102 and 9 semester hours of EH 200-level literature survey courses and EH 301.

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 Undergraduate Director in the English Department for application approval. Students must secure permission of the Undergraduate Director in order to enter the English Honors Program.
Select a member of the English graduate faculty to serve as faculty mentor and one other member of the English graduate faculty to serve with that mentor and the Undergraduate Director on the Honors Committee. Fill out a Senior Thesis Committee Form and give it to the Undergraduate Director for approval. Obtain a copy of the Honors Thesis Guidelines available in the English Department.
In the student's first term of thesis work, write a thesis proposal and have it approved by the Senior Thesis Committee. Once approved, a copy of the proposal should be given to the Undergraduate Director.
In the student's second term of thesis work, write the thesis under his or her committee's guidance.
Obtain final approval of the senior thesis from all members of the Honors Committee.
Complete a final, one-hour public defense of the thesis.

Contact

Program descriptions are available from the English Information Center, located on the wall to the left of Humanities Building room 215A. For more information and/or admission to the English Honors Program, contact Dr. Alison Chapman, Undergraduate Director, UAB Department of English, Humanities Building room 207-G, Birmingham, AL 35294-1260.

MAJOR REQUIREMENTS FOR ENGLISH

Requirement	Fulfilled By:	Hrs.
Required Courses	Take both of the following courses: **EH 301** **EH 476**	6
American & British Survey	Select three of the following courses: **EH 221** **EH 222** **EH 223** **EH 224** *Note: Completing this requirement will automatically satisfy the Core Curriculum Area II: Literature requirement.*	9
African American Survey	Select one of the following courses: **EH 365** **EH 366**	3
Non-Shakespearean British Literature (Before 1660)	Select one of the following courses (EH 491 and EH 492 must be approved): **EH 469** **EH 471** **EH 474** **EH 478** **EH 492** **EH 470** **EH 473** **EH 475** **EH 491**	3
British Lit after 1660	Select two of the following courses (EH 491 and EH 492 must be approved): **EH 414** **EH 482** **EH 486** **EH 489** **EH 480** **EH 483** **EH 487** **EH 491** **EH 481** **EH 485** **EH 488** **EH 492**	6
American Literature	Select two of the following courses (EH 491 and EH 492 must be approved): **EH 416** **EH 448** **EH 463** **EH 467** **EH 445** **EH 460** **EH 464** **EH 468** **EH 446** **EH 461** **EH 465** **EH 491** **EH 447** **EH 462** **EH 466** **EH 492**	6
Study of English as a Language	Select either one 400-level or two 200/300-level courses from the following list (note that the latter option surpasses the number of required hours; also note that EH 393/LING 493 and EH 493/LING 493 must be approved): **EH 250 / LING 250** **EH 393 / LING 393** **EH 251 / LING 251** **EH 450 / LING 450** **EH 252 / LING 252** **EH 451 / LING 451** **EH 292 / LING 292** **EH 452 / LING 452** **EH 355 / LING 355** **EH 453 / LING 453** **EH 356 / LING 356** **EH 454 / LING 454** **EH 360 / LING 360** **EH 493 / LING 493**	3
English Electives	Select 6 hours from **English (EH)** courses numbered 303 or higher (EH 303, EH 304, EH 305, EH 306, EH 307, EH 308, EH 309, EH 310, EH 318, EH 329, EH 339, EH 344, EH 355, EH 356, EH 360, EH 365, EH 366, EH 367, EH 369, EH 376, EH 389, EH 392, EH 393, EH 401, EH 402, EH 403, EH 404, EH 405, EH 406, EH 407, EH 408, EH 409, EH 410, EH 411, EH 412, EH 413, EH 414, EH 415, EH 416, EH 417, EH 418, EH 419, EH 420, EH 421, EH 422, EH 423, EH 426, EH 427, EH 430, EH 431, EH 435, EH 441, EH 442, EH 443, EH 444, EH 445, EH 446, EH 447, EH 448, EH 449, EH 450, EH 451, EH 452, EH 453, EH 454, EH 457, EH 458, EH 459, EH 460, EH 461, EH 462, EH 463, EH 464, EH 465, EH 466, EH 467, EH 468, EH 469, EH 470, EH 471, EH 473, EH 474, EH 475, EH 478, EH 480, EH 481, EH 482, EH 483, EH 485, EH 486, EH 487, EH 488, EH 489, EH 491, EH 492, EH 493). Except for EH 311 and EH 497, which need prior approval of the Director of Undergraduate Studies. 3 hours must be in courses at the 400 level.	6
	Total Major Requirements:	**42**

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.

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 special topics in creative writing.

MAJOR REQUIREMENTS FOR ENGLISH WITH CONCENTRATION IN CREATIVE WRITING

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **EH 205** **EH 301** **EH 476**	9
American & British Survey	Select two of the following courses: **EH 221** **EH 222** **EH 223** **EH 224** *Note: If **EH 221 + EH 222** or **EH 223 + EH 224** are taken, the Core Curriculum Area II: Literature requirement will also be satisfied.*	6
African American Survey	Select one of the following courses: **EH 365** **EH 366**	3
Non-Shakespearean British Literature (Before 1660)	Select one of the following courses (EH 491 and EH 492 must be approved): **EH 469** **EH 471** **EH 474** **EH 478** **EH 492** **EH 470** **EH 473** **EH 475** **EH 491**	3
British Lit after 1660	Select one of the following courses (EH 491 and EH 492 must be approved): **EH 414** **EH 482** **EH 486** **EH 489** **EH 480** **EH 483** **EH 487** **EH 491** **EH 481** **EH 485** **EH 488** **EH 492**	3
American Literature	Select one of the following courses (EH 491 and EH 492 must be approved): **EH 416** **EH 448** **EH 464** **EH 491** **EH 443** **EH 460** **EH 465** **EH 492** **EH 445** **EH 461** **EH 466** **EH 446** **EH 462** **EH 467** **EH 447** **EH 463** **EH 468**	3
Study of English as a Language	Select either one 400-level or two 200/300-level courses from the following list (note that the latter option surpasses the number of required hours; also note that LING 292/EH 292, LING 393/EH 393 and LING 493/EH 493 must be approved): **LING 250 / EH 250** **LING 393 / EH 393** **LING 251 / EH 251** **LING 450 / EH 450** **LING 252 / EH 252** **LING 451 / EH 451** **LING 292 / EH 292** **LING 452 / EH 452** **LING 355 / EH 355** **LING 453 / EH 453** **LING 356 / EH 356** **LING 454 / EH 454** **LING 360 / EH 360** **LING 493 / EH 493**	3
Creative Writing Workshops	Select 12 hours from the following courses, with at least 3 hours at the 300-level and at least 6 hours at the 400-level: (note: to enroll in a workshop at the 400-level, a student must have taken at least one workshop in that genre at the 300 level or receive permission of the instructor) **EH 305** **EH 406** **EH 306** **EH 407** **EH 307** **EH 408** **EH 308** **EH 409** **EH 309** **EH 410** **EH 310** **EH 417** **EH 405** **EH 418**	12
	Total Major Requirements:	**42**

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.

Linguistics
Interdisciplinary Program

Director: David Basilico (English)
Interdisciplinary Faculty: B.R. Bryant (Computer Science), Flege (Biocommunications), Price (Philosophy), Reilly (Computer Science), Walley (Psychology)

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.

MAJOR REQUIREMENTS FOR ENGLISH WITH CONCENTRATION IN LINGUISTICS

Requirement	Fulfilled By:	Hrs.
Required Courses	Take both of the following courses: **EH 301** **EH 476**	6
American & British Survey	Select two of the following courses: **EH 221** **EH 222** **EH 223** **EH 224** *Note: If **EH 221 + EH 222** or **EH 223 + EH 224** are taken, the Core Curriculum Area II: Literature requirement will also be satisfied.*	6
African American Survey	Select one of the following courses: **EH 365** **EH 366**	3
Non-Shakespearean British Literature (Before 1660)	Select one of the following courses (EH 491 and EH 492 must be approved): **EH 469** **EH 471** **EH 474** **EH 478** **EH 492** **EH 470** **EH 473** **EH 475** **EH 491**	3
British Lit after 1660	Select one of the following courses (EH 491 and EH 492 must be approved): **EH 414** **EH 482** **EH 486** **EH 489** **EH 480** **EH 483** **EH 487** **EH 491** **EH 481** **EH 485** **EH 488** **EH 492**	3
American Literature	Select one of the following courses (EH 491 and EH 492 must be approved): **EH 416** **EH 448** **EH 463** **EH 467** **EH 445** **EH 460** **EH 464** **EH 468** **EH 446** **EH 461** **EH 465** **EH 491** **EH 447** **EH 462** **EH 466** **EH 492**	3
Study of English as a Language	Select either one 400-level or two 200/300-level courses from the following list (note that the latter option surpasses the number of required hours; also note that LING 393/EH 493 and LING 493/EH 493 must be approved): **LING 250 / EH 250** **LING 393 / EH 393** **LING 251 / EH 251** **LING 450 / EH 450** **LING 252 / EH 252** **LING 451 / EH 451** **LING 292 / EH 292** **LING 452 / EH 452** **LING 355 / EH 355** **LING 453 / EH 453** **LING 356 / EH 356** **LING 454 / EH 454** **LING 360 / EH 360** **LING 493 / EH 493**	3
Linguistics Requirements	Select 15 hours from the following courses, with 9 hours at the 400-level: (LING 292/EH 292, LING 393/EH 393, and LING 493/LING 493 must be approved): **LING 221 / ANTH 121** **LING 450 / EH 450** **LING 250 / EH 250** **LING 451 / EH 451** **LING 251 / EH 251** **LING 452 / EH 452** **LING 252 / EH 252** **LING 453 / EH 453** **LING 260 / ANTH 120** **LING 454 / EH 454** **LING 292 / EH 292** **LING 466 / CS 466** **LING 355 / EH 355** **LING 493 / EH 493** **LING 356 / EH 356** **LING 494 / ANTH 494** **LING 360 / EH 360** **LING 495 / ANTH 495** **LING 393 / EH 393**	15
	Total Major Requirements:	**42**

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.

Professional Writing and Public Discourse

Students interested in non-fiction writing for corporate and public life may pursue a concentration in professional writing and public discourse within the English major or a minor in writing.

MAJOR REQUIREMENTS FOR ENGLISH WITH CONCENTRATION IN PROFESSIONAL WRITING AND PUBLIC DISCOURSE

Requirement	Fulfilled By:	Hrs.
Required Courses	Take both of the following courses: **EH 301** **EH 476**	6
American & British Survey	Select two of the following courses: **EH 221** **EH 222** **EH 223** **EH 224** *Note: If **EH 221 + EH 222** or **EH 223 + EH 224** are taken, the Core Curriculum Area II: Literature requirement will also be satisfied.*	6
African American Survey	Select one of the following courses: **EH 365** **EH 366**	3
Non-Shakespearean British Literature (Before 1660)	Select one of the following courses (EH 491 and EH 492 must be approved): **EH 469** **EH 471** **EH 474** **EH 478** **EH 492** **EH 470** **EH 473** **EH 475** **EH 491**	3
British Lit after 1660	Select one of the following courses (EH 491 and EH 492 must be approved): **EH 414** **EH 482** **EH 486** **EH 489** **EH 480** **EH 483** **EH 487** **EH 491** **EH 481** **EH 485** **EH 488** **EH 492**	3
American Literature	Select one of the following courses (EH 491 and EH 492 must be approved): **EH 416** **EH 448** **EH 463** **EH 467** **EH 445** **EH 460** **EH 464** **EH 468** **EH 446** **EH 461** **EH 465** **EH 491** **EH 447** **EH 462** **EH 466** **EH 492**	3
Study of English as a Language	Select either one 400-level or two 200/300-level courses from the following list (note that the latter option surpasses the number of required hours; also note that EH 393/LING 493 and EH 493/LING 493 must be approved): **EH 250 / LING 250** **EH 393 / LING 393** **EH 251 / LING 251** **EH 450 / LING 450** **EH 252 / LING 252** **EH 451 / LING 451** **EH 292 / LING 292** **EH 452 / LING 452** **EH 355 / LING 355** **EH 453 / LING 453** **EH 356 / LING 356** **EH 454 / LING 454** **EH 360 / LING 360** **EH 493 / LING 493**	3
Advanced Writing	Select one of the following courses: **EH 203** **EH 303**	3
Professional Writing	Select two of the following courses (EH 311 and EH 492 must be approved): **EH 304** **EH 311** **EH 403** **EH 404** **EH 492**	6
Public Discourse	Select two of the following courses (EH 492 must be approved): **EH 401** **EH 402** **EH 457** **EH 459** **EH 492**	6
	Total Major Requirements:	**42**

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.

MINOR REQUIREMENTS FOR ENGLISH

Requirement	Fulfilled By:	Hrs.
Literature Survey	Take two of the following courses: **EH 217** **EH 221** **EH 223** **EH 218** **EH 222** **EH 224**	6
British Literature	Select one of the following courses (EH 392, EH 491 and EH 492 must be approved): **EH 329** **EH 470** **EH 476** **EH 483** **EH 489** **EH 376** **EH 471** **EH 478** **EH 485** **EH 491** **EH 392** **EH 473** **EH 480** **EH 486** **EH 492** **EH 414** **EH 474** **EH 481** **EH 487** **EH 469** **EH 475** **EH 482** **EH 488**	3
American or Africana Literature	Select one of the following courses (EH 392, EH 491 and EH 492 must be approved): **EH 344** **EH 369** **EH 447** **EH 463** **EH 468** **EH 365** **EH 392** **EH 448** **EH 464** **EH 491** **EH 366** **EH 416** **EH 460** **EH 465** **EH 492** **EH 367** **EH 445** **EH 461** **EH 466** **EH 368** **EH 446** **EH 462** **EH 467**	3
English Electives	Select six hours from 300-level or higher **English (EH)** courses (EH 300, EH 301, EH 303, EH 304, EH 305, EH 306, EH 307, EH 308, EH 309, EH 310, EH 318, EH 329, EH 339, EH 355, EH 356, EH 360, EH 365, EH 366, EH 367, EH 369, EH 376, EH 389, EH 392, EH 393, EH 401, EH 402, EH 403, EH 404, EH 405, EH 406, EH 407, EH 408, EH 409, EH 410, EH 411, EH 412, EH 413, EH 414, EH 415, EH 416, EH 417, EH 418, EH 419, EH 420, EH 421, EH 422, EH 423, EH 425, EH 426, EH 427, EH 430, EH 431, EH 435, EH 441, EH 442, EH 443, EH 444, EH 445, EH 446, EH 447, EH 448, EH 449, EH 450, EH 451, EH 452, EH 453, EH 454, EH 457, EH 458, EH 459, EH 460, EH 461, EH 462, EH 463, EH 464, EH 465, EH 466, EH 467, EH 468, EH 469, EH 470, EH 471, EH 473, EH 474, EH 475, EH 476, EH 478, EH 480, EH 481, EH 482, EH 483, EH 485, EH 486, EH 487, EH 488, EH 489, EH 491, EH 492, EH 493). 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).	6
400-level Coursework Requirement	Six of the 18 hours applied to the English minor must be at the 400-level (EH 401, EH 402, EH 403, EH 404, EH 405, EH 406, EH 407, EH 408, EH 409, EH 410, EH 411, EH 412, EH 413, EH 414, EH 415, EH 416, EH 417, EH 418, EH 419, EH 420, EH 421, EH 422, EH 423, EH 425, EH 426, EH 427, EH 430, EH 431, EH 435, EH 441, EH 442, EH 443, EH 444, EH 445, EH 446, EH 447, EH 448, EH 449, EH 450, EH 451, EH 452, EH 453, EH 454, EH 457, EH 458, EH 459, EH 460, EH 461, EH 462, EH 463, EH 464, EH 465, EH 466, EH 467, EH 468, EH 469, EH 470, EH 471, EH 473, EH 474, EH 475, EH 476, EH 478, EH 480, EH 481, EH 482, EH 483, EH 485, EH 486, EH 487, EH 488, EH 489, EH 491, EH 492, EH 493).	-
	Total Minor Requirements:	**18**

Students minoring in English 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.

MINOR REQUIREMENTS FOR PROFESSIONAL WRITING

Requirement	Fulfilled By:	Hrs.
Composition	Select two of the following courses: **EH 203** **EH 301** **EH 303**	6
Business/Technical Writing	Select one of the following courses (EH 311 and EH 492 must be approved): **EH 304** **EH 311** **EH 403** **EH 404** **EH 492**	3
Specialized Writing	Select one of the following courses (EH 492 must be approved): **EH 401** **EH 402** **EH 457** **EH 459** **EH 492**	3
Business/Technical or Specialized Writing	Select one of the following courses (EH 311 and EH 492 must be approved): **EH 304** **EH 401** **EH 403** **EH 457** **EH 492** **EH 311** **EH 402** **EH 404** **EH 459**	3
Writing Electives	Select one of the following courses (EH 292 and EH 393 must be approved): **EH 250** **EH 305** **EH 309** **EH 360** **EH 251** **EH 306** **EH 310** **EH 393** **EH 252** **EH 307** **EH 355** **LING 221** **EH 292** **EH 308** **EH 356** **LING 260**	3
	Total Minor Requirements:	**18**

Students minoring in English 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.

MINOR REQUIREMENTS FOR LINGUISTICS

Requirement	Fulfilled By:	Hrs.
Required Linguistics	Take both of the following courses: **LING 250 / EH 250** **LING 451 / EH 451**	6
General Linguistics	Select two of the following courses (LING 493/EH 493, LING 494/ANTH 494, and LING 495/ ANTH 495 must be approved): **LING 251 / EH 251** **LING 493 / EH 493** **LING 360 / EH 360** **LING 494 / ANTH 494** **LING 450 / EH 450** **LING 495 / ANTH 495** **LING 453 / EH 453**	6
Linguistics Electives	Select two of the following courses (LING 292/EH 292, LING 393/EH 393, LING 493/EH 493, LING 494/ANTH 494, and LING 495/ANTH 495 must be approved): **LING 221 / ANTH 121** **LING 450 / EH 450** **LING 251 / EH 251** **LING 452 / EH 452** **LING 252 / EH 252** **LING 453 / EH 453** **LING 260 / ANTH 120** **LING 454 / EH 454** **LING 292 / EH 292** **LING 466 / CS 466** **LING 355 / EH 355** **LING 493 / EH 493** **LING 356 / EH 356** **LING 494 / ANTH 494** **LING 360 / EH 360** **LING 495 / ANTH 495** **LING 393 / EH 393**	6
	Total Minor Requirements:	**18**

Students minoring in English 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.

Course Descriptions
English (EH)

EH 091 - Intro to College English - 5
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 portion of the ACT or equivalent on English Placement Test. Prepares students for EH 101; may not be used for fulfillment of any degree requirement.

EH 101 - English Composition - 3
Process and final product of expository and analytical essays. Research and documentation required on most essays. Students must receive grade of C or higher in EH 101 and 102 to complete Core Curriculum requirement in English language. (Also see CLEP examinations and AP examinations.) *Prerequisites:* EH 091 or (satisfactory ACT or UAB English placement score)

EH 102 - English Composition - 3
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.) *Prerequisite:* EH 101

EH 202 - Eng Comp II for Science & Tech - 3
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. *Prerequisite:* EH 101

EH 203 - Writing in Birmingham - 3
Improvement of skills for public writing, using Birmingham as geographical, historical, and institutional context. *Prerequisite:* EH 102

EH 205 - Intro to Creative Writing - 3
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. *Prerequisite:* EH 102

EH 210 - Semiotics of Film - 3
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 101 and EH 102

EH 214 - Intro to Lit: Special Topics - 3
See class schedule for topic. *Prerequisite:* EH 102

EH 215 - Intro to Lit: Detective Fict - 3
Poe and Holmes to present, including novels and short stories by Christie, Hammett, Chandler, and others. *Prerequisite:* EH 102

EH 216 - Introduction to Literature - 3
Short stories, novellas, poems, and plays from variety of historical periods and cultures. Emphasis on techniques of each genre. *Prerequisite:* EH 102

EH 217 - World Literature I - 3
World literature before 1660. *Prerequisite:* EH 102

EH 218 - World Literature II - 3
World literature since 1660. *Prerequisite:* EH 102

EH 221—British and Irish Lit I - 3
Anglo-Saxon literature to end of eighteenth century. *Prerequisite:* EH 102

EH 222 - British and Irish Lit II - 3
End of eighteenth century into twentieth century. *Prerequisite:* EH 102

EH 223 - American Literature I - 3
1620 to 1865. *Prerequisite:* EH 102

EH 224 - American Literature II - 3
1865 to present. *Prerequisite:* EH 102

EH 241 - Literature of the Supernatural - 3
Critical examination and historical survey of fairy tale, ghost story, wonder tale, and gothic narrative. *Prerequisite:* EH 102

EH 242 - Greek and Roman Mythology - 3
Introduction to classical myths; emphasis on influence of mythology in Western literature. *Prerequisite:* EH 102

EH 250 - Introduction to Linguistics - 3
Areas of linguistics and fundamentals of linguistic science; world language families. *Prerequisite:* EH 102

EH 251 - Structure of English - 3
Description and analysis of present-day English grammar. *Prerequisite:* EH 102

EH 252 - The Structure of English Words - 3
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. *Prerequisite:* EH 102

EH 292 - Special Topics in Linguistics - 3
See class schedule for topic. *Prerequisite:* EH 102

EH 300 - Engineering Communication - 2
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 100 and EH 101 and EH 102

EH 301 - Read/Write/Research for Lit - 3
Designed to improve skills for critical writing about literary texts. Required for English majors; recommended prior to taking 400-level courses. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 302 - Intermediate Writing - 3
This course is designed for non-English majors who wish to improve the quality of their writing.

EH 303 - Advanced Composition - 3
Improvement of skills for academic and public writing, focusing on analysis and critique. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 304 - Editing Professional Contexts - 3
Theory and practice of editorial/rhetorical concerns throughout writing process, particularly as related to professional contexts. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 305 - Beg Poetry Writing Workshop - 3
Fundamentals for beginners; emphasis on techniques and style through readings and student's own writing. *Prerequisites:* EH 205 or permission of the instructor

EH 306 - Beg Poetry Writing Workshop - 3
Fundamentals for beginners; emphasis on techniques and style through readings and student's own writing. *Prerequisites:* EH 205 or permission of the instructor

EH 307 - Beg Creative Non-Fict Workshop - 3
Fundamentals for beginners; emphasis on techniques and style through readings and student's own writing. *Prerequisites:* EH 205 or permission of the instructor

EH 308 - Beg Creative Non-Fict Workshop - 3
Fundamentals for beginners; emphasis on techniques and style through readings and student's own writing. *Prerequisites:* EH 205 or permission of the instructor

EH 309 - Beg Fiction Writing Workshop - 3
Fundamentals for beginners; emphasis on techniques and style through readings and student's own writing. *Prerequisites:* EH 205 or permission of the instructor

EH 310 - Beg Fiction Writing Workshop - 3
Fundamentals for beginners; emphasis on techniques and style through readings and student's own writing. *Prerequisites:* EH 205 or permission of the instructor

EH 311 - English Internship - 3
On-campus and off-campus training positions in fields utilizing language and writing skills, with some positions offering external funding. Students should contact the Undergraduate Director to discuss available positions and application procedures. May be counted as elective only in professional writing concentration and writing minor with approval of Undergraduate Director. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 318 - Science Fiction - 3
Modern science fiction, including novels and short stories by Asimov, Heinlein, LeGuin, and others. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 329 - Literature of the Vikings - 3
Old Norse mythology, poetry, and sagas in translation. Background for Beowulf. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 339 - Twentieth Century Theater - 3
Prerequisites: EH 101 and EH 102 and 9 semester hours in EH

EH 355 - Intro to Sociolinguistics - 3
Social factors that play role in language usage and learning; emphasis on American English. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 356 - Semantics - 3
Meaning in language with reference to questions of synonymy, ambiguity, and language use. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 360 - Phonology - 3
Sound patterning of languages. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 365 - African Amer Lit, 1746-1954 - 3
Cultural values from colonial writer Lucy Terry, through slavery and emancipation, to Ralph Ellison and writers of early 1950s. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 366 - African Amer Lit, 1954-Present - 3
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 and EH 102 and 9 semester hours in EH

EH 367 - Southern Literature - 3
Literature of American South: Faulkner, Jefferson, Douglass, Chopin, O'Connor, and others. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 369 - The American Dream - 3
Literature expressing values and ideals of American people from Hawthorne and Thoreau to Richard Wright and Adrienne Rich. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 376 - Shakespeare - 3
Five or six plays: one history, one comedy, three major tragedies. Intensive study of two or more tragedies. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 389 - Bible as Literature - 3
Literary themes and styles of Old and New Testaments. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 392 - Special Topics in Literature - 3
See class schedules for topic. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH

EH 393 - Special Topics in Linguistics - 3
See class schedules for topic.

EH 401 - Tutoring Writing - 3
Improvement of writing skills through understanding theories of tutoring. Preparation of future teachers for tutor training and writing center development. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 402 - Writing in Popular Periodicals - 3
Current theory regarding production, distribution, and consumption of popular periodicals. Practice contributing to these sources. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 403 - Business Writing - 3
Advanced writing concentrating on letters, resumes, and professional reports. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 404 - Technical Writing - 3
Advanced writing concentrating on short informal and long formal reports. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 405 - Poetry Writing Workshop - 3
Intermediate work in poetry through critique of student writing. *Prerequisites:* EH 305 or EH 306 or permission of the instructor

EH 406 - Poetry Writing Workshop - 3
Intermediate work in poetry through critique of student writing. *Prerequisites:* EH 305 or EH 306 or permission of the instructor

EH 407 - Creative Nonfict Writ Workshp - 3
Intermediate work in creative nonfiction through critique of student writing. *Prerequisites:* EH 307 or EH 308 or permission of the instructor

EH 408 - Creative Non-Fict Writ Workshp - 3
Intermediate work in creative nonfiction through critique of student writing. *Prerequisites:* EH 307 or EH 308 or permission of the instructor

EH 409 - Fiction Writing Workshop - 3
Intermediate work in prose fiction through critique of student writing. *Prerequisites:* EH 309 or EH 310 or permission of the instructor

EH 410 - Fiction Writing Workshop - 3
Intermediate work in prose fiction through critique of student writing. *Prerequisites:* EH 309 or EH 310 or permission of the instructor

EH 411 - Capstone Internship- 3
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. Permission of the Undergraduate Director in the Department of English is required.

EH 412 - Poetry: Lyric and Shorter Form - 3
Songs, sonnets, elegies, odes, and dramatic monologues. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 413 - Drama - 3
Techniques and problems of drama, classical through contemporary. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 414 - Modern British/European Drama - 3
Techniques and problems of modern European drama: Ibsen, Shaw, Chekhov, Synge, Pirandello, Brecht, Beckett, and others. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 415 - Form of Fiction: Short Story - 3
American, Russian, and European short stories emphasizing aesthetics of form. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 416 - Modern American Poetry - 3
Selections from Frost, Stein, Stevens, Pound, Eliot, Williams, Doolittle, Jeffers, Moore, McKay, Loy, Toomer, Crane, Hughes, and others. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 417 - Creative Writing Workshop: Spec. Proj. 3
Intermediate work in genres other than poetry, fiction, or creative nonfiction, or a special workshop taught by a visiting writer. *Prerequisite:* Permission of instructor

EH 418 - Creat Writing Wksp: Spec Proj - 3
Intermediate work in genres other than poetry, fiction, or creative nonfiction, or a special workshop taught by a visiting writer. *Prerequisite:* Permission of instructor

EH 419 - Young Adult Literature - 3
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 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 420 - World Literature - 3
Selections in translation from Greek, Roman, and Hebrew classics, other literature, and oral tradition. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor.

EH 421 - World Literature - 3
Selections in translation from European, African, and South American writers. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 422 - African Literature - 3
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 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 423 - African Women's Literature - 3
Writing in all genres by African women from pre-colonial Africa to the present. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 425 - French Lit in English Transl - 3
Topic to be announced. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 426 - German Lit in English Transl - 3
Topic to be announced. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 427 - Span and Span-Amer Lit in Engl - 3
Topic to be announced. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 430 - Braz/Portug Lit in Eng Transl - 3
Topic to be announced. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 431 - Special Topics in Film - 3
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. *Prerequisite:* EH 210

EH 435 - Teaching Creative Writing - 3
Examines current theory and practice in teaching creative writing particularly in secondary schools and introductory college-level classes. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 441 - Lit Theory/Crit, Anc-19th c - 3
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 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 442 - Lit Theory/Crit, 20th c-Pre - 3
Introduction to theories of art and literary production in the contexts of aesthetics and culture from Russian formalism to the present. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 443 - Archetype and Myth - 3
Recurring images, underlying patterns, and shapes-of-meaning in poetry, fiction, and fairy tales. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 444 - Women's Literature and Theory - 3
Literary works and theoretical perspectives of Angelou, Chopin, Hong, Kingston, Hurston, Walker, Woolf, Plath, and others. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 445 - Special Topics in African American Literature - 3
Investigates writings of colonial and contemporary African American writers on specific topics. *Prerequisites:* EH 101 and EH 102

EH 446 - African American Autobiography - 3
Personal narratives by African Americans, including texts by Wheatley, Douglass, Jacobs, Wilson, DuBois, Johnson, Hurston, Hughes, Wright, Baldwin, Angelou, and Moody. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 447 - African Amer Dramatic Trad - 3
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 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 448 - African Amer Poetry Tradition - 3
Development of African American poetry from its early works to the present, including Wheatley, Dunbar, Hughes, Brooks, and Angelou. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 450 - Advanced Grammar - 3
Present-day English grammar. *Prerequisites:* EH 250 or EH 251

EH 451 - Generative Grammar - 3
Advanced analysis of English grammar with emphasis on Chomskyan generative grammar. *Prerequisites:* EH 250 or EH 251

EH 453 - Adv Hist of the English Lang - 3
Advanced topics. *Prerequisite:* EH 250

EH 454 - The Biology of Language - 3
Vocal tract and neuroanatomical specializations for language, language acquisition, genetic language disorders, language and other primates, and evolution of language. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 457 - Writing and Medicine - 3
Public discourse focusing on health, illness, and medical practice. Production of texts as health consumers and health practitioners.

EH 458 - Communication Criticism - 3
Rhetorical systems for appraising persuasive messages and campaigns in twentieth century. *Prerequisite:* Junior Standing

EH 459 - Discourse Analysis - 3
Public discourse, with emphasis on social politics of linguistic choices. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 460 - Amer Women Writers Before 1900 - 3
Survey of American women's writing before 1900. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 461 - American Literature, 1620-1820 - 3
Representative American writing from colonial period to Washington Irving. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 462 - American Literature, 1820-1870 - 3
Representative writers such as Alcott, Cooper, Poe, Hawthorne, Melville, Emerson, Fuller, Fern, Harper, Thoreau, Jacobs, Whitman, Stowe, and Dickinson. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 463 - American Literature, 1870-1914 - 3
Realism and naturalism: Twain, James, Howells, Crane, Jewett, Wharton, Dreiser, Norris, and Chopin, among others. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 464 - American Literature, 1914-1945 - 3
Selected fiction, poetry, and drama of major American writers such as Eliot, Faulkner, Hemingway, Hurston, O'Neill, and Wright. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 465 - American Literature, 1945-Present - 3
Selected fiction, poetry, and drama in context of post-war cultural trends and literary movements. *Prerequisites:* EH 101 and EH 102

EH466 - Slave Narr and Lit Expressions - 3
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 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 467 - Black Women Writers - 3
Evolution of Afrocentric feminist consciousness through early and contemporary writings. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 468 - The Harlem Renaissance - 3
Black writers during Harlem Renaissance movement. Includes Johnson, Toomer, Murray, Larsen, McKay, Thurman, Reed, and Morrison. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 469 - Medieval Culture: Lit and Soc - 3
Exploration through art, literature, and history of dominant themes of Middle Ages, from Germans to Dante and Chaucer. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 470 - Arthurian Legend - 3
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 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 471 - Beowulf in Context - 3
An interdisciplinary course in Anglo-Saxon art and culture bearing upon Beowulf; close study of the Norse analogues of the Old English epic. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 473 - Chaucer: Pilgrim to Canterbury - 3
Selections from Canterbury Tales and Chaucer's fourteenth-century milieu. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 474 - Eng Renaiss Drama (excl WS) - 3
Plays by Marlowe, Kyd, Jonson, Tourneur, Webster, Middleton, and Ford. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 475 - Eng Renaiss Poetry and Prose - 3
Topics vary. Broad survey of period or close analysis of genre, theme, or author. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 476 - Shakespeare - 3
King Lear, Othello, and three other plays. Required for English majors. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 478 - Milton - 3
Selected prose and poetry, including Paradise Lost. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 480 - The Restoration - 3
Dryden, Butler, Rochester, Marvell, Bunyan, Congreve, Wycherley, and Etherege. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 481 - 18th Century: Lit and Culture - 3
Interdisciplinary exploration of texts that focuses on social, economic, and political backgrounds. Topics and authors vary. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 482 - 18th Century: Theory and Inter - 3
Formal and philosophical implications of selected texts. Authors and topics vary. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 483 - British Romanticism - 3
Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Hazlitt, Lamb, and DeQuincy. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 485 - British Victorian Poetry - 3
Selected works by Tennyson, Browning, Arnold, and others. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 487 - 19th-Century British Novel - 3
Selected works by Austen, Dickens, Thackeray, Bronte, Trollope, Eliot, or other novelists. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 488 - British Novel: The Modern Age - 3
Selected works by Conrad, Lawrence, Joyce, Woolf, Ford, and others. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 489 - James Joyce - 3
Joyce's fiction through Ulysses. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 491 - Major Writers - 3
See class schedule for topic. May be repeated. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 492 - Special Topics - 3
See class schedule for topic. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 493 - Special Topics in Linguistics - 3
See class schedule for topic. *Prerequisites:* EH 101 and EH 102 and 9 semester hours in EH and 3 semester hours in EH at the 200 level, or permission of the instructor

EH 494 - English Honors Research - 3
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.

EH 495 - Honors Capstone Thesis - 3
This is an individual studies course for outstanding students completeing their work on an honors capstone thesis. During this second course of a two-course sequence, students will write and defend that thesis. Permission of the Undergraduate Director.

EH 496 - Capstone Seminar - 3
Specific topics vary. The course will provide an apportunity 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:* 9 hours EH coursework at the 400 level and permission of the Director of Undergraduate Studies.

EH 497 - Individual Studies - 1 to 3

EH 499 - Film Thesis - 3
Thesis on an independently designed topic within film history or film aesthetics, allowing the completion of the interdisciplinary film minor. *Prerequisite:* EH 210

Course Descriptions
Linguistics (LING)

LING 221 - Intro Descriptive Linguistics - 3
Description and analysis of non-Western languages. *Prerequisites:* EH 101 and EH 102

LING 250 - Introduction to Linguistics - 3
Areas of linguistics and fundamentals of linguistic science; world language families. *Prerequisites:* EH 101 and EH 102

LING 251 - Structure of English - 3
Description and analysis of present-day English grammar. *Prerequisite:* EH 102

LING 252 - The Structure of English Words - 3
Introduction to English vocabulary elements and word formation, including topics in history of English and sound patterns as these topics relate to word formation. *Prerequisites:* EH 101 and EH 102

LING 260 - Language and Culture - 3
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 101 and EH 102

LING 292 - Special Topics in Linguistics - 3
See class schedule for topic. *Prerequisites:* EH 101 and EH 102

LING 355 - Intro to Sociolinguistics - 3
Social factors that play role in language usage and learning; emphasis on American English. *Prerequisites:* EH 101 and EH 102

LING 356 - Semantics - 3
Meaning in language with reference to questions of synonymy, ambiguity, and language use. *Prerequisites:* EH 101 and EH 102

LING 360 - Phonology - 3
Sound patterning of languages. *Prerequisites:* EH 101 and EH 102

LING 393 - Special Topics in Linguistics - 3
See class schedule for topic. *Prerequisites:* EH 101 and EH 102

LING 451 - Generative Grammar - 3
Advanced analysis of English grammar with emphasis on Chomskyan generative grammar. *Prerequisites:* EH 250 or EH 251

LING 452 - Grammar/Usage for Eng Teachers - 3
Intensive review of structure of English, usage, punctuation, and style as these relate to grammar. *Prerequisites:* EH 250 or EH 251

LING 453 - Adv Hist of the Engl Language - 3
Advanced topics. *Prerequisite:* EH 250

LING 454 - The Biology of Language - 3
Vocal tract and neuroanatomical specializations for language, language acquisition, genetic language disorders, language and other primates, and evolution of language. *Prerequisites:* EH 101 and EH 102

LING 466 - Computational Linguistics - 3
Computational Linguistics.

LING 493 - Special Topics in Linguistics - 3
See class schedule for topic. *Prerequisites:* EH 101 and EH 102

LING 494 - Spec Problems in Linguistics - 3
Supervised in-depth study of specified topic area in linguistics. Topics determined by student and instructor interest. *Prerequisites:* EH 101 and EH 102

LING 495 - Spec Problems in Linguistics - 3
Supervised in-depth study of specified topic area in linguistics. Topics determined by student and instructor interest. *Prerequisites:* EH 101 and EH 102

Department of Foreign Languages and Literatures

Chair: Sheri Spaine Long
Associate Chair: John K. Moore, Jr.
Faculty: Bokobza, Carter, Centeno, Chambless, Cook, Daniélou, Faki, Lehmeyer (Emeritus), Long, Martin-Ogunsola, McLaughlin (Emerita), Moore, O'Leary, Orihuela, Sánchez-López, Skinner, Zayzafoon.
Director, Foreign Language Media Services: Malinda Blair O'Leary
Director, Spanish for Specific Purposes: Lourdes Sánchez-López

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 and Spanish. 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 on the job market and/or pursue graduate or professional studies.

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 qualified Foreign Languages majors. Furthermore, we promote and sponsor opportunities for study abroad in conjunction with UAB Study Abroad programs. UAB Distinguished Professor 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/foreignlang/.

Language Placement

To assure that students taking foreign language courses are properly placed, all students must take a placement test in the language before enrolling in foreign language classes for available languages. Students enrolling in Arabic, Chinese, Italian and Japanese will work directly with designated foreign language faculty members to ensure proper placement. Placement tests in French, Spanish, and German are available online at the Department of Foreign Languages and Literatures web site: http://www.uab.edu/foreignlang/placement.html. The level at which native- or heritage-language speakers may begin formal language study will be determined by the appropriate foreign language advisor after the student has taken the online placement exam. Exceptional native/heritage language students may apply for Credit by Examination (CBE). The College Level Examination Program (CLEP) is available in French, German, and Spanish.

Major

The Department of Foreign Languages and Literatures offers programs of study leading to the degree of Bachelor of Arts in Foreign Languages with concentrations in French and Spanish. Students who major or minor in foreign languages should consult the Department Chair, who will assign a 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 encourages 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-Hispanophone writers, Latino Topics and Peninsular Film. 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, education, anthropology, communication studies, business). 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, and publishing.

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 encourages 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 above 199 are required for the minor in Chinese, French, German, Japanese or 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 tested for placement and proficiency level.

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; and
- 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.

Spanish for Specific Purposes

The Spanish for Specific Purposes (SSP) Program in the UAB Department of Foreign Languages and Literatures offers courses designed for traditional as well as non-traditional students. The objective of this program is not only to fulfill UAB students' academic needs, but also to reach out to local professionals. The growing Spanish-speaking community in Alabama is a reality. More and more professionals such as teachers, health professionals, business people, law enforcement officers and others have the need to communicate with the Hispanic community. SSP courses focus on content, vocabulary and culture. Students learn the vocabulary, language and cultural background that they will use in their professional field through extensive practice in class and, in some cases, outside of class as well. Classes from the SSP Program include Spanish for Health Professionals, Spanish for Classroom Teachers, Spanish for the Professions, Business Spanish and Translation and Interpretation.

For more information about SSP, visit the Department of Foreign Languages and Literatures web site: http://www.uab.edu/foreignlang/ssp.html/.

Foreign Language Media Services

The computer-based Foreign Language Media Services (FLMS) at the University of Alabama at Birmingham enables students, faculty and community users outside UAB 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/foreignlang/flmsite/.

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).

Foreign Literature in English Translation

This program is primarily designed to acquaint students who have little or no knowledge of a foreign language with non-English literatures through translation. These courses do not count toward a major or minor in French, German or Spanish.

MAJOR REQUIREMENTS FOR FOREIGN LANGUAGES (Concentration in French)

Requirement	Fulfilled By:	Hrs.
Foreign Cultures	Students must satisfy the following: **FLL 120**	3
Additional Introductory Foreign Language Course ---101	**SPA 101/111 ARA 101 ITL 101 FLL 101** **GN 101 CHI 101 JPA 101**	3
Foreign Literatures in Translation Course	**EH 218 or FLL 220**	3
Introduction to Linguistics	**EH/ LING 250**	3
CAPSTONE: Foreign Language Seminar	**FLL 485**	3
Study Abroad/Foreign Language Internship	**FR 290 FR 390 FR 490 FLL 333**	6
	TOTAL FL MAJOR COMMON CORE HOURS	**21**

OTHER REQUIREMENTS (Concentration in French)

Requirement	Fulfilled By:	Hrs.
Grade Requirement	No course in which a grade below C has been earned may be counted toward the major.	-
School-Wide Requirement Overlap	*Note: Many courses eligible to fulfill the requirements below will also satisfy Track A of the School-Wide Requirements.*	-
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.	-
French 200-level	Select 12 hours from 200-level or higher **French (FR)** courses. **FR 201 FR 210 FR 220** **FR 202 FR 211 FR 230** **FR 290**	12
French 300-level	Select 12 hours from 300-level or higher **French (FR)** courses. **FR 305 FR 308 FR 320** **FR 306 FR 310 FR 330**	12
French 400-level	Select 9 hours from 400-level **French (FR)** courses. (Must be taken at UAB) **FR 401 FR 404 FR 412** **FR 402 FR 405 FR 413** **FR 403 FR 410 FR 490** **FR 499**	9
	Total Major Requirements:	**33**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	Completion of a minor is required for this degree

MINOR REQUIREMENTS FOR FRENCH

Requirement	Fulfilled By:	Hrs.
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.	-
French Courses	Select 12 hours from 200-level or higher **French (FR)** courses. **FR 201 FR 210 FR 220** **FR 202 FR 211 FR 230** **FR 290**	12
	Total Minor Requirements:	**12**

MAJOR REQUIREMENTS FOR FOREIGN LANGUAGES (Concentration in Spanish)

Requirement	Fulfilled By:	Hrs.
Foreign Cultures	Students must satisfy the following: **FLL 120**	3
Additional Introductory Foreign Language Course ---101	**FR 101 ARA 101 ITL 101 FLL 101** **GN 101 CHI 101 JPA 101**	3
Foreign Literatures in Translation Course	**EH 218 or FLL 220**	3
Introduction to Linguis-tics	**EH/ LING 250**	3
CAPSTONE: Foreign Language Seminar	**FLL 485**	3
Study Abroad/Foreign Language Internship	**SPA 290 SPA 390 SPA 490 FLL 333**	6
	TOTAL FL MAJOR COMMON CORE HOURS	**21**

OTHER REQUIREMENTS (CONCENTRATION IN SPANISH)

Requirement	Fulfilled By:	Hrs.
Grade Requirement	No course in which a grade below C has been earned may be counted toward the major.	-
School-Wide Requirement Overlap	*Note: Many courses eligible to fulfill the requirements below will also satisfy Track A of the School-Wide Requirements.*	-
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.	-
Spanish 200-level	Select 12 hours from 200-level or higher Spanish **(SPA)** courses. **SPA 201 SPA 210 SPA 290** **SPA 202 SPA 233 SPA 299** **SPA 206 SPA 280**	12
Spanish 300-level	Select 12 hours from 300-level or higher Spanish **(SPA)** courses. **SPA 300 SPA 311 SPA 314 SPA 399** **SPA 304 SPA 312 SPA 380** **SPA 310 SPA 313 SPA 390**	12
Spanish 400-level	Select 9 hours from 400-level Spanish **(SPA)** courses. (Must be taken at UAB) **SPA 401 SPA 407 SPA 414** **SPA 402 SPA 409 SPA 416** **SPA 403 SPA 411 SPA 420** **SPA 405 SPA 412 SPA 490** **SPA 499**	9
	Total Major Requirements:	**33**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	Completion of a minor is required for this degree

MINOR REQUIREMENTS FOR SPANISH

Requirement	Fulfilled By:	Hrs.
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.	-
Spanish Courses	Select 12 hours from 200-level or higher **Spanish (SPA)** courses. **SPA 201 SPA 210 SPA 290** **SPA 202 SPA 233 SPA 299** **SPA 206 SPA 280**	12
	Total Minor Requirements:	**12**

MINOR REQUIREMENTS FOR CHINESE

Requirement	Fulfilled By:	Hrs.
Beginning Language Requirement	To enroll in any 200-level **Chinese (CHI)** course, students must either complete 6 hours of 100-level **Chinese (CHI)** courses or complete the equivalent placement test.	-
Chinese Courses	Select 12 hours from 200-level or higher **Chinese (CHI)** courses. **CHI 201 CHI 203 CHI 290** **CHI 202 CHI 206 CHI 299**	12
	Total Minor Requirements:	**12**

MINOR REQUIREMENTS FOR GERMAN

Requirement	Fulfilled By:	Hrs.
Beginning Language Requirement	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.	-
German Courses	Select 12 hours from 200-level or higher **German (GN)** courses. **GN 201 GN 204 GN 290** **GN 202 GN 205** **GN 203 GN 206**	12
	Total Minor Requirements:	**12**

MINOR REQUIREMENTS FOR JAPANESE

Requirement	Fulfilled By:	Hrs.
Beginning Language Requirement	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.	-
Japanese Courses	Select 12 hours from 200-level or higher **Japanese (JPA)** courses. **JPA 201 JPA 203 JPA 290** **JPA 202 JPA 204 JPA 299**	12
	Total Minor Requirements:	**12**

Course Descriptions

Foreign Language (FLL)

FLL 101 - Introductory Foreign Language I - 3
Introduction to a foreign language and culture. Offered on demand. Language will vary. (A and S TRACK A) (Core Area II)

FLL 120 - Foreign Cultures - 3
Exploration of the customs, traditions, languages, ancestry, religions, values, and institutions of varied western and non-western nations through the use of humanities disciplines. (Core Area II)

FLL 160 - FYE: Foreign Languages - 1
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 220 - Foreign Literature in English Transl. - 3
Exploration of literary traditions, trends, and approaches to the study of global cultures.

Foreign Literature in English Translation (LT)

LT 420 - World Literature I - 3
Selections in translation from Greek, Roman, and Hebrew classics and other literature, and from oral tradition.

LT 421 - World Literature II - 3
Selections in translation from major continental writers.

LT 425 - French Lit in English Transl - 3
Topics in French Literature.

LT 426 - German Lit in English Transl - 3
Topics in German Literature.

LT 427 - Span/Span-Amer Lit in English - 3
Topics in Spanish and Spanish American Literature.

Arabic (ARA)

ARA 101 - Introductory Arabic I - 3
This course is an introduction to Modern Standard Arabic (MSA). It offers students combined training not only in 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. (CORE AREA II) (A and S TRACK A)

ARA 102 - Introductory Arabic II - 3
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 not only of 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 thorough 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 class room. (CORE AREA II) (A and S TRACK A)

ARA 190 - Study Abroad: Arabic - 1 to 6
Approved novice level study abroad program in an Arabic-speaking country.

ARA 201 - Intermediate Arabic I - 3
This is a continuation of ARA 102. Emphasis is placed on reading authentic Arabic materials and communicative competence. There will be a focus on the meaning of sentences rather than words, which would enable the students to read and speak with more fluency and better comprehension. Students will not only engage in studying authentic Arabic materials (written, audio, and/or video, official forms, etc.), but are also required to evaluate them for others. They will also be guided to function in specific situations where they have to use only the target language to communicate their ideas and then write about them. Additionally, they will be exposed to some particular aspects of the cultures, customs, literary traditions and other artistic expressions of the Arabic-speaking world. (CORE AREA II) (A and S TRACK A)

ARA 202 - Intermediate Arabic II - 3
This course focuses on enhancing the 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 and instruction, attention will also be paid to the 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. *Prerequisite:* ARA 201 or permission of the instructor.

ARA 290 - Arabic for Study Abroad - 1 to 6
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
This is an individualized course of directed readings and activities for intermediate Arabic students. Course design is determined by the instructor and student, and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Arabic language and culture. Intermediate proficiency in reading, writing, listening and speaking Arabic is the targeted outcome.

ARA 390 - Study Abroad: Arabic - 1 to 6
Approved advanced level program for Study Abroad in an Arabic speaking country. *Prerequisite:* Permission of the department chair and the Study Away director.

ARA 399 - Directed Readings: Arabic - 3
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 the student and will be tailored to the needs of the student. The goal of this 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. *Prerequisite:* 9 hours in Intermediate Arabic or equivalent. Permission of the department chair.

Chinese (CHI)

CHI 101 - Introductory Chinese I - 3
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) (A and S Track A)

CHI 102 - Introductory Chinese II - 3
Continuation of CHI 101. Conducted in Chinese. (CORE AREA II) (A and S Track A)

CHI 190 - Study Abroad: Chinese - 1 to 6
Approved novice level study abroad program in a Chinese-speaking country.

CHI 201 - Ind Study: Intermed Chinese I - 3
Continued development of grammar, vocabulary, reading, writing and cultural proficiency. Conducted in Chinese. (CORE AREA II) (A and S Track A)

CHI 202 - Ind Study: Intermed Chinese II - 3
Continuation of Chinese 201. Conducted in Chinese. (CORE AREA II) (A and S Track A)

CHI 203 - Intermed Chinese Lang & Culture - 3
This course aims to improve student linguistic and cultural fluency necessary for functioning in the Chinese-speaking world. Class activities will consist of communicative exercises such as role-playing. While emphasis will be placed on oral skills, attention will also be given to the written Chinese that one encounters in daily life, particularly in signage and forms. Topics may include: Conversational Chinese in such settings as a restaurant, business, store, public transportation, airport, post office, hospital, home-stay, hotel, and local attractions. (A and S Track A)

CHI 206 - Chinese for the Professions - 3
Intensive conversation and acquisition of vocabulary for the professionals while focusing on culture(s) of the Chinese-speaking world. Course Objectives: To further develop communicative competence within the cultural context of the Chinese-speaking world; To foster critical thinking skills, such as, problem-identification and solving, decision-making, anticipation and planning, client understanding, and negotiation techniques; To expand students' functional vocabulary, in particular, the language of the Chinese-speaking professional world; To promote a better understanding of Chinese business culture; To develop professional basic writing skills. (A and S Track A)

CHI 290—Chinese for Study Abroad—1-6
This study-abroad Chinese course aims at improving students' oral fluency. It will help students develop intermediary conversational skill 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
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 to 6
Advance program in a Chinese speaking country. *Prerequisites:* Permission of the department chair and the Study Away director.

CHI 399 - Directed Readings: Chinese - 3
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 the student and will be tailored to the needs of the student. The goal of this course is to increase general literacy in and knowledge of Chinese language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening, and speaking Chinese is the targeted outcome. *Prerequisite:* Permission of the department chair.

French (FR)

FR 101 - Introductory French I - 4
Essentials of language needed for proficient communication. Includes basic exercises in listening comprehension, speaking, writing, and reading. Conducted in French. (CORE AREA II) (A and S Track A)

FR 102 - Introductory French II - 4
Continuation of FR 101. Conducted in French.

FR 108 - Introductory Intensive French - 4
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. (CORE AREA II) (A and S Track A)

FR 190 - Study Abroad - 1 to 6
First-year level of approved study-abroad program in a French-speaking country.

FR 201 - Intermediate French I - 3
Comprehensive review of grammar and composition through written exercises of reading and writing proficiency, listening comprehension, and speaking skills. Conducted in French. (CORE AREA II) (A and S Track A)

FR 202 - Intermediate French II - 3
Continuation of French 201. *Prerequisite:* FR 102 or equivalent. (CORE AREA II) (A and S Track A)

FR 210 - Intermediate French Culture - 3
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. (A and S Track A)

FR 211 - Interm Survey of French Lit - 3
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. (A and S Track A)

FR 220 - Interm French Composition - 3
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. (A and S Track A)

FR 230 - Interm French Conversation - 3
Acquisition of conversational and listening skills, vocabulary, and oral automatisms. Conducted in French. May not concurrently enroll in FR 330. (A and S Track A)

FR 290 - Study Abroad - 1 to 6
Approved program in a French-speaking country. *Prerequisite*: Permission of Department Chair.

FR 305 - French-Speaking Cinema - 3
Overview of French-speaking cinema from the end of the nineteenth century to the present. Emphasis on the cinema of l'Entre-deux guerres, la Nouvelle Vague, and French-speaking movies from Africa. Conducted in French

FR 330 - Advanced French Conversation - 3
Acquisition of conversational and listening skills, vocabulary, and oral automatisms. Conducted in French. May not concurrently enroll in FR 230.

FR 390 - Study Abroad - 1 to 6
Approved program in a French-speaking country.

FR 399 - Special Readings in French - 3
Directed Readings in French.

FR 401 - Pre-Rev France (1610-1789) - 3
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-Rev France (1789-1913) - 3
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 Fr (1895-1940) - 3
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
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
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
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 Civ: Pre-Revolution - 3
Historical and cultural foundation of France, from its conquest by Julius Caesar to the French Revolution. Conducted in French.

FR 413 - French Civ: Post-Revolution - 3
The history and myths of France after the French Revolution that produced French civilization. Conducted in French.

FR 490 - Study Abroad - 1 to 6
Approved program in a French-speaking country.

FR 499 - Directed Studies - 3
Individual studies.

German (GN)

GN 101 - Introductory German I - 4
Essentials of language needed for proficient communication. Includes basic exercises in listening comprehension, speaking, writing and reading. Conducted in German. (CORE AREA II) (A and S Track A)

GN 102 - Introductory German II - 4
Continuation of GN 101. Conducted in German. (CORE AREA II) (A and S Track A)

GN 190 - Study Abroad - 1 to 6
Approved program in a German-speaking country.

GN 202 - Intermediate German II - 3
Continuation of GN 201. Conducted in German. (CORE AREA II) (A and S Track A)

GN 203 - German Culture and Civil - 3
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. (A and S Track A)

GN 204 - Readings in German Literature - 3
Selections from representative modern authors. Emphasis on oral and written practice. Conducted in German. (A and S Track A)

GN 205 - German for the Professions - 3
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. (A and S Track A)

GN 206 - German for Technology/Media - 3
Practice in the use of technology and media in German Studies. Conducted in German. (A and S Track A)

GN 290 - Study Abroad - 1 to 6
Approved program in a German-speaking country.

GN 390 - Study Abroad - 1 to 6
Approved program in a German-speaking country.

GN 399 - Special Readings in German - 3
Special Readings in German.

GN 480 - Special Topics in German - 3
Emphasis on particular authors, genres, or topics. May be repeated for credit.

GN 490 - Study Abroad - 1 to 6
Approved program in a German-speaking country.

GN 499 - Directed Studies - 3
Directed studies.

Italian (ITL)

ITL 101 - Introductory Italian I - 3
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) (A and S Track A)

ITL 102 - Introductory Italian II - 3
Continuation of ITL 101. Conducted in Italian. (Core Area II) (A&S Track) *Prerequisite:* ITL 101

ITL 190 - Study Abroad: Italian - 1 to 6
Approved novice level study abroad program in an Italian-speaking country.

ITL 201 - Intermediate Italian I - 3
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 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 with 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 to 6
Approved program in an Italian-speaking country.

ITL 299 - Directed Readings in Italian - 3
This is an individualized course of directed readings and activities for intermediate Italian students. Course design is determined by the instructor and student, and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Italian language and culture. Intermediate proficiency in reading, writing, listening and speaking Italian is the targeted outcome.

ITL 399 - Independent Study - 3
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 Italian language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening, and speaking Italian is the targeted outcome. *Prerequisite:* Permission of the department chair.

Japanese (JPA)

JPA 101 - Introductory Japanese I - 3
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) (A and S Track A)

JPA 102 - Introductory Japanese II - 3
Continuation of JPA 101. Conducted in Japanese. (CORE AREA II) (A and S Track A)

JPA 201 - Intermediate Japanese I - 3
Continued development of grammar, vocabulary, reading, writing, and cultural proficiency. Conducted in Japanese. (CORE AREA II) (A and S Track A)

JPA 202 - Intermediate Japanese II - 3
Continuation of JPA 201. Conducted in Japanese. (CORE AREA II) (A and S Track A)

JPA 203 - Interm Japanese Lang & Cult I - 3
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. (A and S Track A)

JPA 204 - Interm Japanese Lang & Cult II - 3
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. (A and S Track A)

JPA 290 - Japanese for Study Abroad - 1 to 6
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.

JPA 299 - Directed Readings in Japanese - 3
This is an individualized course of directed readings and activities for intermediate Japanese students. Course design is determined by the instructor and student and will be tailored to the needs of the student. The goal of the course is to increase general literacy in and knowledge of Japanese language and culture. Intermediate proficiency in reading, writing, listening and speaking Japanese is the targeted outcome.

JPA 399 - Directed Readings: Japanese - 3
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 Japanese language and culture. Intermediate-high or Advanced-low proficiency in reading, writing, listening, and speaking Japanese is the targeted outcome. *Prerequisite:* Permission of the department chair.

Spanish (SPA)

SPA 101 - Introductory Spanish I - 1
Essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing and reading. Conducted in Spanish. *Co-requisite:* Must be taken concurrently with SPA 111 Lab. Students missing first lab will be subject to administrative withdrawal. (CORE AREA II) (A and S Track A)

SPA 102 - Introductory Spanish II - 4
Continuation of SPA 101. Conducted in Spanish. (CORE AREA II) (A and S Track A)

SPA 108 - Introductory Intensive Spanish - 4
Accelerated essentials of language and culture needed for communication. Includes listening comprehension, speaking, writing, and reading. Fast-paced review of SPA 101 and SPA 102. Conducted in Spanish. (CORE AREA II) (A and S TRACK A)

SPA 111 - Introductory Spanish I Lab - 3
Involves active participation in the four skills (reading and writing, listening and speaking) with an emphasis on oral and written production in an interactive, communication context. *Co-requisite:* Must be taken concurrently with SPA 101. Must pass both lecture and lab. Students missing first lab will be subject to administrative withdrawal.

SPA 180 - Span for Health Professionals - 3
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. (A and S TRACK A)

SPA 190 - Study Abroad - 1 to 6
Approved program in a Spanish-speaking country.

SPA 201 - Intermediate Spanish I - 3
Continued development of grammar, composition, reading, writing, listening comprehension, speaking, and cultural proficiency. Conducted in Spanish. (CORE AREA II) (A and S TRACK A)

SPA 202 - Intermediate Spanish II - 3
Continuation of SPA 201. Conducted in Spanish.

SPA 206 - Inter Span for the Professions - 3
Focusing on Spanish-speaking professional culture, course emphasizes elementary-level conversation acquisition and vocabulary. Conducted in Spanish. (A and S TRACK A)

SPA 210 - Conversation and Culture - 3
Development of oral expression within the context of contemporary Spanish-speaking cultures. (A and S TRACK A)

SPA 233 - Interm Spanish Comp and Conv - 3
Foundational composition and conversation, which focuses on correct written and oral expression in Spanish. (A and S TRACK A)

SPA 280 - Span for Health Professionals - 3
Focusing on the Spanish-speaking health-related culture, course emphasizes intensive conversation, technical reading, and vocabulary acquisition. Conducted in Spanish. (A and S TRACK A)

SPA 290 - Study Abroad - 1 to 6
Approved program in a Spanish-speaking country.

SPA 299 - Special Readings in Spanish - 3
Directed readings in intermediate Spanish. Studies select texts of the Spanish-speaking world to increase overall literacy in Spanish.

SPA 300 - Adv Grammar/Composition - 3
Analysis and practice of basic grammatical structures of Spanish in diverse contexts. Development of writing skills. Conducted in Spanish.

SPA 304 - Phonetics and Phonemics - 3
Course focuses on how the Spanish sound system functions in various regions. Development of pronunciation through oral practice. Conducted in Spanish.

SPA 311 - Surv of Spanish Peninsular Lit - 3
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 Lit - 3
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
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/Interpret - 3
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 - Adv Spanish for Health Profess - 3
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 to 6
Approved program in a Spanish-speaking country.

SPA 399 - Special Readings in Spanish - 3
Directed readings in Spanish.

SPA 401 - Voices of Imperial Spain - 3
Culture and civilization of Imperial Spain from the age of the Catholic Monarchs to the close of the Hapsburg Dynasty (1469-1716). Includes a study of the art, historical documents and literature from both the center and periphery of the Empire. Selected works by representative authors will vary according to instructor. Conducted in Spanish.

SPA 402 - Voices of Colonial Latin Amer - 3
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 Lit/Film - 3
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
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 Latin America - 3
Cultural and literary forms of Amerindian, Hispanic or mixed-descent writers of Latin America. Focus on the concepts of hybridity, syncretism and mestizaje. Conducted in Spanish.

SPA 409 - Span-Speaking Nobel Laureates - 3
Literary master-pieces of the Spanish-speaking world. Conducted in Spanish.

SPA 411 - Cervantes/Imperial Sp Society - 3
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 - Contemp Lat Amer 1920-Present - 3
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
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
Seminar on individual authors, specific genres, literary movements, literary discourse/theory, or transatlantic studies. Conducted in Spanish. May be repeated for credit.

SPA 420 - Advanced Spanish Linguistics - 3
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 490 - Study Abroad - 1 to 6
Approved program in a Spanish-speaking country.

SPA 499 - Directed Studies - 3
Directed readings in Spanish. Conducted in Spanish.

Department of Music

Chair: Jeff W. Reynolds
Associate Chair: Dale Reynolds
Faculty: Candelaria, Copeland, Fambrough, Gainey, Hurst-Wajszczuk, Irving, Kasman, Mathes, Mosteller, Panion, Price, D. Reynolds, J. Reynolds, Roberts, Samuels, Turner

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.music.uab.edu.

Music Ensembles

Students of all majors are invited to participate in a variety of musical ensembles: Blazer Band, Brass Ensemble, Chamber Singers, Clarinet Choir, 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 Music Group, Piano Ensemble, Symphony Band, Tuba Ensemble, Women's Chorale, and Wind Symphony.

Music Scholarships

The Myrtle Jones-Steele and James Darrell McAnnally Scholarships (piano), the Alys Robinson Stephens Scholarship (any instrument or voice) and the Dean's Scholarships in Music 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, telephone (205) 934-7376.

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 on several dates throughout the year. Examinations to be administered on audition days will 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] 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 into the Pre-Music program and have one year to gain full admission as a music major, or 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 advisor 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

I. **PURPOSE:** To demonstrate functional keyboard skills at a level appropriate for students majoring in Music, Music Technology, or Music Education.

II. **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 begin enrolling 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.

III. **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.

A. 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.

B. Performance:

1. A solo selected from the following list or from repertoire of comparable difficulty (memorization optional).

a. J.S. Bach - *Little Preludes*

b. Clementi - *Sonatinas*

c. Schumann - *Album for the Young*

2. Two patriotic songs: *America* and *The Star-Spangled Banner*. Music may be used.

C. Technique:

1. All major and harmonic minor scales: Two octaves in parallel motion, hands together.

2. All major and minor arpeggios: Two octaves, hands together.

D. Functional Skills:

1. Accompaniment improvisations (see *Progressive Class Piano*; each chapter contains sections on harmonization and improvisation).

2. Transpose a simple accompaniment or song at sight (see *Progressive Class Piano*, Chapter 5 pages 195-204 for examples).

3. 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 every term of enrollment, except during the term of student teaching or internship, for a minimum of seven terms. A grade of P (pass) or NP (not pass) will be assigned accordingly for a student's attendance at concerts, student recitals, 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.

Ensemble Participation Requirement

Students in the B.A. degree program in Music are required to earn credit in at least one music ensemble per term for a minimum of seven terms. 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, 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 take up to four of their ensemble hours in Computer Music Ensemble. The remaining three hours must be in the major ensembles named above.

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.

The Alabama teaching certificate is issued for two teaching fields in music: instrumental music and vocal/choral music, both valid for nursery school 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 Concert Choir, Jazz Ensemble, Piano Ensemble, Wind Symphony, and/or Marching Band. 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. 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.

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 or (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 or (2) enroll in and successfully complete MUP 001 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.

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; and
Be admitted to 300-level private lessons.

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; and
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
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Dr. Jeff Reynolds, Chair
Department of Music
231 Hulsey Center
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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 advisor. The student must meet with his/her advisor before registering for classes each term.

MAJOR REQUIREMENTS FOR MUSIC

Requirement	Fulfilled By:	Hrs.
Computer Music	Take the following courses: **MU 115** *NOTE: Completing this requirement will also satisfy Track C of the School-Wide Requirements.*	3
Music Theory and Aural Skills	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. Take all of the following course pairs: **MU 221 + MU 224** **MU 321 + MU 324** **MU 222 + MU 225** **MU 322 + MU 325**	16
Music Theory Elective	Select three hours from the following courses: **MU 359 MU 446 MU 451 MU 458** **MU 445 MU 448 MU 455 MU 459**	3
Music History and Literature	Take the following courses: **MU 471 MU 472**	6
Music History and Literature Electives	Select two of the following courses: **MU 261 MU 364 MU 365 MU 366 MU 461**	6
Conducting	Take the following course: **MU 329**	3
Music Ensemble	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 **MUP 220 MUP 230 MUP 232 MUP 236** **MUP 225 MUP 231 MUP 235 MUP 353** The Minor Ensembles include the following **MUP 110 MUP 234 MUP 239 MUP 341** **MUP 221 MUP 237 MUP 320 MUP 420** **MUP 233 MUP 238 MUP 321**	7

Applied Music	Select six hours from **Music Performance (MUP)** courses designated "Private Lessons" at the 200 level or higher (each course may be repeated for credit) **MUP 240 MUP 275 MUP 363 MUP 393 MUP 472** **MUP 250 MUP 280 MUP 364 MUP 394 MUP 473** **MUP 261 MUP 291 MUP 365 MUP 395 MUP 474** **MUP 262 MUP 292 MUP 371 MUP 440 MUP 475** **MUP 263 MUP 293 MUP 372 MUP 450 MUP 480** **MUP 264 MUP 294 MUP 373 MUP 461 MUP 491** **MUP 265 MUP 295 MUP 374 MUP 462 MUP 492** **MUP 271 MUP 340 MUP 375 MUP 463 MUP 493** **MUP 272 MUP 350 MUP 380 MUP 464 MUP 494** **MUP 273 MUP 361 MUP 391 MUP 465 MUP 495** **MUP 274 MUP 362 MUP 392 MUP 471**	6
	Total Major Requirements:	**53**

MAJOR REQUIREMENTS FOR MUSIC WITH A CONCENTRATION IN MUSIC TECHNOLOGY

Requirement	Fulfilled By:	Hrs.
Computer Music	Take the following courses: **MU 115** *NOTE: Completing this requirement will also satisfy Track C of the School-Wide Requirements.*	3
Music Theory and Aural Skills	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. Take all of the following course pairs: **MU 221 + MU 224** **MU 321 + MU 324** **MU 222 + MU 225** **MU 322 + MU 325**	16
Music Theory Elective	Select three hours from the following courses: **MU 359** **MU 446** **MU 451** **MU 458** **MU 445** **MU 448** **MU 455** **MU 459**	3
Music History and Literature: 1750 to present	Take the following course: **MU 472**	3
Music History and Literature Elective	Select one the following courses: **MU 261** **MU 471**	3
Music Ensemble	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**, with the remaining hours in Major Ensembles. The Major Ensembles include the following courses: **MUP 220** **MUP 230** **MUP 232** **MUP 236** **MUP 225** **MUP 231** **MUP 235** **MUP 353** The Minor Ensembles include the following courses: **MUP 110** **MUP 234** **MUP 239** **MUP 341** **MUP 221** **MUP 237** **MUP 320** **MUP 233** **MUP 238** **MUP 321**	7

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). **MUP 240 MUP 280 MUP 365 MUP 440 MUP 480** **MUP 250 MUP 291 MUP 371 MUP 450 MUP 491** **MUP 261 MUP 292 MUP 372 MUP 461 MUP 492** **MUP 262 MUP 293 MUP 373 MUP 462 MUP 493** **MUP 263 MUP 294 MUP 374 MUP 463 MUP 494** **MUP 264 MUP 295 MUP 375 MUP 464 MUP 495** **MUP 265 MUP 340 MUP 380 MUP 465** **MUP 271 MUP 350 MUP 391 MUP 471** **MUP 272 MUP 361 MUP 392 MUP 472** **MUP 273 MUP 362 MUP 393 MUP 473** **MUP 274 MUP 363 MUP 394 MUP 474** **MUP 275 MUP 364 MUP 395 MUP 475**	4
Piano Proficiency	Take the following course: **MUP 125**	0
Performance Attendance	Take the following course for seven terms: **MUP 001**	0
Music Technology	Take the following courses: **MU 245 MU 342 MU 441** **MU 341 MU 345 MU 498**	16
	Total Major Requirements:	**55**

MAJOR REQUIREMENTS FOR MUSIC EDUCATION (INSTRUMENTAL)

Requirement	Fulfilled By:	Hrs.
Public Speaking	Take the following courses: **CM 101** *NOTE: Completing this requirement will also count toward Core Curriculum Area II.*	3
Psychology	Take the following course: **PY 101** *NOTE: Completing this requirement will also count toward Core Curriculum Area IV.*	3
Computer Music	Take the following courses: **MU 115** *NOTE: Completing this requirement will also satisfy Track C of the School-Wide Requirements.*	3
Music Theory and Aural Skills	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. Take all of the following course pairs: **MU 221 + MU 224 MU 321 + MU 324** **MU 222 + MU 225 MU 322 + MU 325**	16
Music History and Literature	Take the following courses: **MU 471 MU 472**	6
Conducting	Take the following courses: **MU 329 MU 429**	6
Music Ensemble	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. The Major Ensembles include the following courses: **MUP 225 MUP 231 MUP 235 MUP 236 MUP 353** **MUP 230 MUP 232** The Minor Ensembles include the following courses: **MUP 221 MUP 237 MUP 234** **MUP 233 MUP 238 MUP 239**	7

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 **MUP 240 MUP 280 MUP 365 MUP 440 MUP 480** **MUP 250 MUP 291 MUP 371 MUP 450 MUP 491** **MUP 261 MUP 292 MUP 372 MUP 461 MUP 492** **MUP 262 MUP 293 MUP 373 MUP 462 MUP 493** **MUP 263 MUP 294 MUP 374 MUP 463 MUP 494** **MUP 264 MUP 295 MUP 375 MUP 464 MUP 495** **MUP 265 MUP 340 MUP 380 MUP 465** **MUP 271 MUP 350 MUP 391 MUP 471** **MUP 272 MUP 361 MUP 392 MUP 472** **MUP 273 MUP 362 MUP 393 MUP 473** **MUP 274 MUP 363 MUP 394 MUP 474** **MUP 275 MUP 364 MUP 395 MUP 475**	7
Piano Proficiency	Take the following course: **MUP 125**	0
Performance Attendance	Take the following course for seven terms: **MUP 001**	0
Music Elective	Select 3 hours from **Music (MU)** courses numbered 120 or higher or **Music Performance (MUP)** courses numbered 140 or higher. **MU 165 MU 459 MUP 232 MUP 320 MUP 462** **MU 199 MU 461 MUP 233 MUP 321 MUP 463** **MU 210 MU 499 MUP 234 MUP 340 MUP 464** **MU 211 MUP 140 MUP 235 MUP 341 MUP 465** **MU 245 MUP 150 MUP 236 MUP 350 MUP 471** **MU 261 MUP 161 MUP 237 MUP 353 MUP 472** **MU 299 MUP 162 MUP 238 MUP 361 MUP 473** **MU 330 MUP 163 MUP 239 MUP 362 MUP 474** **MU 331 MUP 164 MUP 240 MUP 363 MUP 475** **MU 341 MUP 165 MUP 250 MUP 364 MUP 480** **MU 342 MUP 171 MUP 261 MUP 365 MUP 491** **MU 345 MUP 172 MUP 262 MUP 371 MUP 492** **MU 359 MUP 173 MUP 263 MUP 372 MUP 493** **MU 364 MUP 174 MUP 264 MUP 373 MUP 494** **MU 365 MUP 175 MUP 265 MUP 374 MUP 495** **MU 366 MUP 180 MUP 271 MUP 375**	3
	MU 367 MUP 191 MUP 272 MUP 380 **MU 399 MUP 192 MUP 273 MUP 391** **MU 429 MUP 193 MUP 274 MUP 392** **MU 441 MUP 194 MUP 275 MUP 393** **MU 445 MUP 195 MUP 280 MUP 394** **MU 446 MUP 220 MUP 291 MUP 395** **MU 448 MUP 221 MUP 292 MUP 420** **MU 451 MUP 225 MUP 293 MUP 440** **MU 455 MUP 230 MUP 294 MUP 450** **MU 458 MUP 231 MUP 295 MUP 461**	
Methods	Take the following courses: **EHS 401 EHS 402** **EMU 402 EMU 403 EMU 404 EMU 405**	12

Applied Methods	Take the following courses: **MUP 122 MUP 132 MUP 134 MUP 136 MUP 138**	5
Internship	Take the following courses: **EMU 490 EMU 499**	10
Education	Take the following courses: **ECY 300 EDT 300 EPR 411 HPE 200** **EDF 362 EHS 471 EPR 363 EDU 200**	20
	Total Major Requirements:	**101**

ADDITIONAL REQUIREMENTS FOR TEACHER CERTIFIED PROGRAMS

Requirement	Fulfilled By:
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)

Requirement	Fulfilled By:	Hrs.
Public Speaking	Take the following course: **CM 101** *NOTE: Completing this requirement will also count toward Core Curriculum Area II.*	3
Psychology	Take the following course: **PY 101** *NOTE: Completing this requirement will also count toward Core Curriculum Area IV.*	3
Computer Music	Take the following course: **MU 115** *NOTE: Completing this requirement will also satisfy Track C of the School-Wide Requirements.*	3
Music Theory and Aural Skills	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. Take all of the following course pairs: **MU 221 + MU 224 MU 321 + MU 324** **MU 222 + MU 225 MU 322 + MU 325**	16
Music History and Literature	Take the following courses: **MU 471 MU 472**	6
Conducting	Take the following courses: **MU 329 MU 429**	6
Music Ensemble	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. The Major Ensembles include the following courses: **MUP 220** The Minor Ensembles include the following courses: **MUP 320** **MUP 110 MUP 321 MUP 420**	7

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 **MUP 240 MUP 280 MUP 365 MUP 440 MUP 480** **MUP 250 MUP 291 MUP 371 MUP 450 MUP 491** **MUP 261 MUP 292 MUP 372 MUP 461 MUP 492** **MUP 262 MUP 293 MUP 373 MUP 462 MUP 493** **MUP 263 MUP 294 MUP 374 MUP 463 MUP 494** **MUP 264 MUP 295 MUP 375 MUP 464 MUP 495** **MUP 265 MUP 340 MUP 380 MUP 465** **MUP 271 MUP 350 MUP 391 MUP 471** **MUP 272 MUP 361 MUP 392 MUP 472** **MUP 273 MUP 362 MUP 393 MUP 473** **MUP 274 MUP 363 MUP 394 MUP 474** **MUP 275 MUP 364 MUP 395 MUP 475**	7
Piano Proficiency	Take the following course: **MUP 125**	0
Performance Attendance	Take the following course for seven terms: **MUP 001**	0
Music Elective	Select 3 hours from **Music (MU)** courses numbered 120 or higher or **Music Performance (MUP)** courses numbered 140 or higher. **MU 165 MU 459 MUP 232 MUP 320 MUP 462** **MU 199 MU 461 MUP 233 MUP 321 MUP 463** **MU 210 MU 499 MUP 234 MUP 340 MUP 464** **MU 211 MUP 140 MUP 235 MUP 341 MUP 465** **MU 245 MUP 150 MUP 236 MUP 350 MUP 471** **MU 261 MUP 161 MUP 237 MUP 353 MUP 472** **MU 299 MUP 162 MUP 238 MUP 361 MUP 473** **MU 330 MUP 163 MUP 239 MUP 362 MUP 474** **MU 331 MUP 164 MUP 240 MUP 363 MUP 475** **MU 341 MUP 165 MUP 250 MUP 364 MUP 480** **MU 342 MUP 171 MUP 261 MUP 365 MUP 491** **MU 345 MUP 172 MUP 262 MUP 371 MUP 492** **MU 359 MUP 173 MUP 263 MUP 372 MUP 493** **MU 364 MUP 174 MUP 264 MUP 373 MUP 494** **MU 365 MUP 175 MUP 265 MUP 374 MUP 495** **MU 366 MUP 180 MUP 271 MUP 375**	3
Methods	Take the following courses: **EHS 401 EHS 402** **EMU 402 EMU 403 EMU 404 EMU 405**	12
Applied Methods	Take the following courses: **MUP 132 MUP 134 MUP 136 MUP 138**	4
Internship	Take the following courses: **EMU 490 EMU 499**	10
Education	Take the following courses: **EDU 200 ECY 300 EPR 411** **HPE 200 EDF 362 EHS 471** **EDT 300 EPR 363**	20
	Total Major Requirements:	**100**

ADDITIONAL REQUIREMENTS FOR TEACHER CERTIFIED PROGRAMS

Requirement	Fulfilled By:
Teacher Education Program	A student must be admitted to the Teacher Education Program and complete all of the requirements.

MINOR REQUIREMENTS FOR MUSIC

Requirement	Fulfilled By:	Hrs.
Music Theory	Take the following courses: **MU 221 MU 222**	6
Aural Skills	Take the following courses: **MU 224 MU 225**	2
Music History and Literature	Take the following courses: **MU 471 MU 472**	6
Music Ensembles	Select six hours from the following courses (all courses may be repeated for credit): **MUP 110 MUP 231 MUP 236 MUP 321** **MUP 220 MUP 232 MUP 237 MUP 341** **MUP 221 MUP 233 MUP 238 MUP 353** **MUP 225 MUP 234 MUP 239 MUP 420** **MUP 230 MUP 235 MUP 320**	6
Applied Music	Select three hours from Music Performance (MUP) courses designated "Private Lessons" numbered MUP 140 or higher (each course may be repeated for credit). **MUP 140 MUP 191 MUP 272 MUP 362 MUP 394 MUP 475** **MUP 150 MUP 192 MUP 273 MUP 363 MUP 395 MUP 480** **MUP 161 MUP 193 MUP 274 MUP 364 MUP 440 MUP 491** **MUP 162 MUP 194 MUP 275 MUP 365 MUP 450 MUP 492** **MUP 163 MUP 195 MUP 280 MUP 371 MUP 461 MUP 493** **MUP 164 MUP 240 MUP 291 MUP 372 MUP 462 MUP 494** **MUP 165 MUP 250 MUP 292 MUP 373 MUP 463 MUP 495** **MUP 171 MUP 261 MUP 293 MUP 374 MUP 464** **MUP 172 MUP 262 MUP 294 MUP 375 MUP 465** **MUP 173 MUP 263 MUP 295 MUP 380 MUP 471** **MUP 174 MUP 264 MUP 340 MUP 391 MUP 472** **MUP 175 MUP 265 MUP 350 MUP 392 MUP 473** **MUP 180 MUP 271 MUP 361 MUP 393 MUP 474**	3
Music Elective	Select 3 hours from **Music (MU)** courses numbered 120 or higher or **Music Performance (MUP)** courses numbered 140 or higher. **MU 165 MU 367 MUP 172 MUP 237 MUP 295 MUP 394** **MU 199 MU 399 MUP 173 MUP 238 MUP 320 MUP 395** **MU 210 MU 441 MUP 174 MUP 239 MUP 321 MUP 420** **MU 211 MU 445 MUP 175 MUP 240 MUP 340 MUP 440** **MU 245 MU 446 MUP 180 MUP 250 MUP 341 MUP 450** **MU 261 MU 448 MUP 191 MUP 261 MUP 350 MUP 461** **MU 299 MU 451 MUP 192 MUP 262 MUP 353 MUP 462** **MU 321 MU 455 MUP 193 MUP 263 MUP 361 MUP 463** **MU 322 MU 458 MUP 194 MUP 264 MUP 362 MUP 464** **MU 324 MU 459 MUP 195 MUP 265 MUP 363 MUP 465** **MU 325 MU 461 MUP 220 MUP 271 MUP 364 MUP 471** **MU 330 MU 499 MUP 221 MUP 272 MUP 365 MUP 472**	3

	MU 331 MUP 140 MUP 225 MUP 273 MUP 371 MUP 473 **MU 341 MUP 150 MUP 230 MUP 274 MUP 372 MUP 474** **MU 342 MUP 161 MUP 231 MUP 275 MUP 373 MUP 475** **MU 345 MUP 162 MUP 232 MUP 280 MUP 374 MUP 480** **MU 359 MUP 163 MUP 233 MUP 291 MUP 375 MUP 491** **MU 364 MUP 164 MUP 234 MUP 292 MUP 380 MUP 492** **MU 365 MUP 165 MUP 235 MUP 293 MUP 391 MUP 493** **MU 366 MUP 171 MUP 236 MUP 294 MUP 392 MUP 494** **MUP 393 MUP 495**	
	Total Minor Requirements:	**26**

MINOR REQUIREMENTS FOR MUSIC TECHNOLOGY

Requirement	Fulfilled By:	Hrs.
Music Theory	Take the following courses: **MU 221 MU 222**	6
Aural Skills	Take the following courses: **MU 224 MU 225**	2
Music History and Literature	Take the following course: **MU 261**	3
Music Ensembles	Select four hours from the following courses (all courses may be repeated for credit): **MUP 110 MUP 231 MUP 236 MUP 321** **MUP 220 MUP 232 MUP 237 MUP 341** **MUP 221 MUP 233 MUP 238 MUP 353** **MUP 225 MUP 234 MUP 239 MUP 420** **MUP 230 MUP 235 MUP 320**	4
Applied Music	Select three hours from Music Performance (MUP) courses designated "Private Lessons" numbered MUP 140 or higher (each course may be repeated for credit). **MUP 140 MUP 191 MUP 272 MUP 362 MUP 394 MUP 475** **MUP 150 MUP 192 MUP 273 MUP 363 MUP 395 MUP 480** **MUP 161 MUP 193 MUP 274 MUP 364 MUP 440 MUP 491** **MUP 162 MUP 194 MUP 275 MUP 365 MUP 450 MUP 492** **MUP 163 MUP 195 MUP 280 MUP 371 MUP 461 MUP 493** **MUP 164 MUP 240 MUP 291 MUP 372 MUP 462 MUP 494** **MUP 165 MUP 250 MUP 292 MUP 373 MUP 463 MUP 495** **MUP 171 MUP 261 MUP 293 MUP 374 MUP 464** **MUP 172 MUP 262 MUP 294 MUP 375 MUP 465** **MUP 173 MUP 263 MUP 295 MUP 380 MUP 471** **MUP 174 MUP 264 MUP 340 MUP 391 MUP 472** **MUP 175 MUP 265 MUP 350 MUP 392 MUP 473** **MUP 180 MUP 271 MUP 361 MUP 393 MUP 474**	3
Music Technology	Take the following courses: **MU 115 MU 245 MU 341**	9
	Total Minor Requirements:	**26**

Course Descriptions
Music (MU)

MU 100 - Fundamentals of Music - 3
Basic elements of music and music notation: rhythm, scales, keys, and chords.

MU 115 - Computer Music I - 3
Concepts, hardware, and programs for creating and performing music with personal computers. *Prerequisite:* MU 100

MU 120 - Music Appreciation - 3
Guided listening and class discussion covering variety of styles. Emphasis on European concert music of the eighteenth and nineteenth centuries. (CORE AREA II).

MU 130 - Music Appreciation/Cncert Goer - 3
Musical understanding emphasizing elements, styles, and forms in representative masterworks. One lecture per week and attendance at nine concerts during term.

MU 141 - Musical Acoustics - 3
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 159 - Intro to Composition - 3
Introduction to the craft of musical composition. *Prerequisites:* MU 221 and MU 224

MU160 - First Year Experience in Music - 1
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 to a successful collegiate career in the study of music.

MU 165 - Jazz Style: History and Appr - 3
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 to 3
Directed projects in music. Permission of Department Chair based on written proposal submitted prior to registration.

MU 203 - Intro to Music Education - 2
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 to 3
Specialized subjects taught as opportunity allows. May be repeated for credit.

MU 211 - Recording Studio Workshop - 1 to 3
Specialized subjects taught as opportunity allows. May be repeated for credit.

MU 221 - Music Theory I - 3
Melody, harmony, and rhythm; their interaction in music. Diatonic musical materials with emphasis on choral and simple keyboard idioms. *Prerequisite:* MU 100

MU 222 - Music Theory II - 3
Continuation of MU 221. *Prerequisites:* MU 221 and MU 224

MU 224 - Aural Skills I - 1
Required laboratory for MU 221.

MU 225 - Aural Skills II - 1
Required laboratory for MU 222. *Prerequisite:* MU 224

MU 232 - Instrumental Literature I - 3
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. *Prerequisites:* Two terms of Applied Lessons (MUP 161-195).

MU 233 - Piano Literature I - 3
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. *Prerequisites:* Two terms of Applied Piano.

MU 234 - Vocal Literature I - 3
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. *Prerequisites:* Two terms of Applied Voice.

MU 235 - English and Italian Diction - 2
Instruction in standard English and Italian stage pronunciation.

MU 236 - French and German Diction - 2
Instruction in the standard French and German stage pronunciation. *Prerequisite:* MU 235

MU 245 - Recording Technology I - 3
Concepts and techniques of music production in recording studios. Limited enrollment. First class meets on campus.

MU 261 - Intro to Music Literature - 3
Score reading and elementary analysis. Chronological survey of styles and forms of each historical period. Basic music reading ability.

MU 282 - Accompanying - 3
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 - Intro Technology in the Arts - 3
Applications of computer-based technology to the arts: music, theatre, video, and visual arts. Demonstrations of multimedia capabilities.

MU 299 - Independent Studies - 1 to 3
May be repeated for credit. Permission of Department Chair based on written proposal submitted prior to registration.

MU 303 - Foundations of Music Education - 3
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. *Prerequisite:* MU 203

MU 321 - Music Theory III - 3
Introduction to chromatic materials. *Prerequisites:* MU 222 and MU 225

MU 322 - Music Theory IV - 3
Chromatic materials, modulation, extensions of tertian harmony, and overview of contemporary techniques. *Prerequisites:* MU 321 and MU 324

MU 324 - Aural Skills III - 1
Required laboratory for MU 321. *Prerequisites:* MU 222 and MU 225

MU 325 - Aural Skills IV - 1
Required laboratory for MU 322. *Prerequisites:* MU 321 and MU 324

MU 329 - Conducting I - 3
Basic conducting techniques and rehearsal procedures.

MU 330 - Marching Band Techniques - 3
Organizing and administering a marching band, including show design and computer-assisted drill-writing experience.

MU 331 - Band Literature - 3
Frequently performed modern concert band literature.

MU 332 - Instrumental Literature II - 3
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. *Prerequisite:* MU 232

MU 333 - Piano Literature II - 3
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. *Prerequisite:* MU 233

MU 334 - Vocal Literature II - 3
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 and MU 236

MU 341 - Computer Music II - 3
Using computer applications, including MIDI and sampling technology, in the creation of musical compositions. *Prerequisite:* MU 115

MU 342 - Computer Music III - 3
Continuation of MU 341. Advanced computer music projects utilizing sound synthesis, sound file manipulation, and hard disk recording techniques. *Prerequisites:* MU 222 and MU 225 and MU 341

MU 345 - Recording Technology II - 3
Advanced concepts and techniques of multi-track recording in project and professional recording studio, including signal processing mixing and mastering. *Prerequisites:* MU 115 and MU 221 and MU 224 and MU 245

MU 346 - Legal Aspects of Music Industry - 3

MU 359 - Composition I - 1 to 2
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. *Prerequisite:* MU 322

MU 364 - American Music - 3
Music in United States from colonial times to the present. *Prerequisite:* MU 120 or MU 261

MU 365 - The Evolution of Jazz - 3
Origins and survey of jazz types and styles. Lectures, recordings, and readings. *Prerequisite:* MU 120 or MU 261

MU 366 - Music in World Cultures - 3
Characteristics of musical styles found in various cultures throughout the world. *Prerequisite:* MU 120 or MU 261

MU 367 - Intro to Ethnomusicology - 3
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. *Prerequisites: (*6 hours in ANTH, MU or MUP courses)

MU 381 - Instrumental Pedagogy - 3
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
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. *Prerequisites:* Two terms of Applied Piano

MU 383 - Vocal Pedagogy - 3
Principles of healthy voice production as the foundation for an approach to teaching voice. *Prerequisites:* Two terms of Applied Voice

MU 399 - Independent Studies - 1 to 3
Permission of Department Chair based on written proposal submitted prior to registration.

MU 410 - Music Technology Workshop - 1 to 3

MU 429 - Advanced Conducting/Techniques - 3
Rehearsal techniques, expression, and interpretation. May occasionally work with University ensembles. *Prerequisite:* MU 329

MU 441 - Multimedia Productions - 3
Techniques for producing music for television, film, video, computer presentations, and slide shows using computer-based technologies. *Prerequisites:* MU 342 and MU 345

MU 445 - Modal Counterpoint - 3
Important characteristics of vocal polyphonic writing based on modal scales with emphasis on style of Palestrina and other Renaissance composers. *Prerequisite:* MU 222

MU 446 - Tonal Counterpoint - 3
Important characteristics of polyphonic writing based on major and minor scales with emphasis on style of J.S. Bach and other eighteenth century composers. *Prerequisite:* MU 322

MU 448 - Orchestration - 3
Scoring techniques for orchestra, band, and other instrumental groups. *Prerequisite:* MU 322

MU 451 - Topics in Music Theory - 3
Aspects of music theory and analysis. May be repeated for credit. *Prerequisite:* MU 322

MU 455 - Analysis of Musical Structure - 3
Principles and techniques of organization in tonal music; analytical methods. *Prerequisite:* MU 322

MU 458 - Contemporary Techniques - 3
Techniques and materials employed in contemporary music, including nonfunctional and nontertian harmony, polyharmony, atonal and serial music, contemporary notation. *Prerequisite:* MU 322

MU 459 - Composition II - 1 to 2
Directed individual projects in composition and discussions on related topics. May be repeated for credit. *Prerequisite:* MU 359

MU 461 - Music Literature Seminar - 3
Selected topics concerning specific periods, genres, and forms. May be repeated for credit.

MU 471 - Music History and Lit to 1750 - 3
Major developments of music styles and forms from pre-Christian era through Baroque. Includes critical listening to selected musical examples. *Prerequisite:* MU 322

MU 472 - Music Hist/Lit 1750-Present - 3
Classical period through the present. *Prerequisite:* MU 322

MU 498 - Music Tech Internship - 1 to 2
Practical experience in recording studios, concert halls, audio-video post production suites, and advertising and publishing agencies. *Prerequisites:* MU 342 and MU 345 and MU 441

MU 499 - Independent Studies - 1 to 3
Directed studies in music. Permission of Department Chair based on written proposal prior to registration.

Music Performance (MUP)

MUP 001 - Performance Attendance - 0
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
Performs traditional and contemporary gospel choral music. Open to students of all majors. May be repeated for credit.

MUP 122 - Class Voice - 1
Fundamentals of singing for teaching or performance. Group and individual instruction.

MUP 124 - Class Piano - 1
Basic keyboard skills for adult beginner. May be repeated for maximum of 3 hours of credit.

MUP 125 - Piano Proficiency - 0
Required of music majors for graduation and music education majors before entering Teacher Education Program (TEP).

MUP 130 - Class Guitar - 1
Beginning course in basic guitar techniques and music reading. Student must have a classic or acoustic guitar. Maximum of two semesters allowed for credit.

MUP 132 - Class Woodwinds - 1
Basic materials and performance techniques, primarily for music education students.

MUP 134 - Class Brass - 1
Basic materials and performance techniques, primarily for music education students.

MUP 136 - Class Percussion - 1
Basic materials and performance techniques, primarily for Music Education students.

MUP 138 - Class Strings - 1
Basic materials and performance techniques, primarily for Music Education students.

MUP 140 - Private Lessons: Voice - 1
Private instruction in voice. Limited to Music majors and minors.

MUP 150 - Private Lessons: Piano - 1
Private instruction in piano. Limited to Music majors and minors.

MUP 161 - Private Lessons: Flute - 1
Private instruction in flute. Limited to Music majors and minors.

MUP 162 - Private Lessons: Oboe - 1
Private instruction in oboe. Limited to Music majors and minors.

MUP 163 - Private Lessons: Clarinet - 1
Private instruction in clarinet. Limited to Music majors and minors.

MUP 164 - Private Lessons: Saxophone - 1
Private instruction in saxophone. Limited to Music majors and minors.

MUP 166 - Private Lessons: Bassoon - 1
Private instruction in bassoon. Limited to Music majors and minors.

MUP 171 - Private Lessons: Trumpet - 1
Private instruction in trumpet. Limited to Music majors and minors.

MUP 172 - Private Lessons: French Horn - 1
Private instruction in French horn. Limited to Music majors and minors.

MUP 173 - Private Lessons: Trombone - 1
Private instruction in trombone. Limited to Music majors and minors.

MUP 175 - Private Lessons: Tuba - 1
Private instruction in tuba. Limited to Music majors and minors.

MUP 180 - Private Lessons: Percussion - 1
Private instruction in percussion. Limited to Music majors and minors.

MUP 191 - Private Lessons: Violin - 1
Private instruction in violin. Limited to Music majors and minors.

MUP 192 - Private Lessons: Viola - 1
Private instruction in viola. Limited to Music majors and minors.

MUP 193 - Private Lessons: Cello - 1
Private instruction in cello. Limited to Music majors and minors.

MUP 194 - Private Lessons: Bass - 1
Private instruction in bass. Limited to Music majors and minors.

MUP 195 - Private Lessons: Guitar - 1
Private instruction in guitar. Limited to Music majors and minors.

MUP 220 - Concert Choir - 1
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
Learning Lab for MUP220 Concert Choir. Performs choral music representing a variety of periods and styles. Some sight-reading ability necessary. .

MUP 221 - Jazz Combo - 1
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
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. *Prerequisite:* MUP 132

MUP 224 - Advanced Brass Methods - 1
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. *Prerequisite:* MUP 134

MUP 225 - Symphony Band - 1
Performs concert band literature. Open to students of all majors. May be repeated for credit.

MUP 226 - Advanced Percussion Methods - 1
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. *Prerequisite:* MUP 136

MUP 230 - Guitar Ensemble - 1
Performs original and pre-arranged selections of guitar ensemble literature. May be repeated for credit.

MUP 231 - Orchestra - 1
Participation in community orchestra. Open to string students; wind or percussion players must enroll concurrently in MUP 235 or MUP 236.

MUP 232 - Marching Band - 1
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
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
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
Wind Symphony. Performs finest concert band literature. Open to students of all majors. May be repeated for credit.

MUP 236 - Jazz Ensemble - 1
Performs classic and contemporary jazz, swing, and rhythm and blues. May be repeated for credit.

MUP 237 - Blazer Band - 1
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
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
Performs works from low brass ensemble in a chamber setting. Open to students of all majors. May be repeated for credit.

MUP 240 - Private Lessons: Voice - 1 to 2
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 to 2
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 261 - Private Lessons: Flute - 1 to 2
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 262 - Private Lessons: Oboe - 1 to 2
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 to 2
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 to 2
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 265 - Jazz Improvisation - 3
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 - 1to 2
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 271 - Private Lessons: Trumpet - 1 to 2
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 272 - Private Lessons: French Horn - 1 to 2
Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required.

MUP 273 - Private Lessons: Trombone - 1 to 2
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 274 - Private Lessons Euphonium - 1 to 2
Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required.

MUP 275 - Private Lessons: Tuba - 1 to 2
Limited to Music majors and minors. Weekly performance class and private lesson, to be scheduled with the instructor, are required.

MUP 291 - Private Lessons: Violin - 1 to 2
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 to 2
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 to 2
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 to 2
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 to 2
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 320 - Chamber Singers - 1
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
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 to 2
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 341 - Computer Music Ensemble - 1
Performs computer and other electronically generated music of various styles. *Prerequisites:* MU 222 and MU 225 and MU 341

MUP 350 - Private Lessons: Piano - 1 to 2
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 353 - Piano Ensemble - 1
Explores piano literature for multiple performers. May be repeated for credit

MUP 361 - Private Lessons: Flute - 1 to 2
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 to 2
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 to 2
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 to 2
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 to 2
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 371 - Private Lessons: Trumpet - 1 to 2
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 to 2
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 to 2
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 to 2
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 to 2
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 to 2
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 to 2
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 to 2
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 to 2
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 to 2
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 to 2
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
Thirty-minute recital presented in the junior year

MUP 395 - Private Lessons: Guitar - 1 to 2
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
Thirty-minute recital presented in the junior year

MUP 420 - Opera Workshop - 1
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 to 2
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. *Prerequisite:* MUP 340

MUP 450 - Private Lessons: Piano - 1 to 2
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. *Prerequisite:* MUP 350

MUP 461 - Private Lessons: Flute - 1 to 2
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. *Prerequisite:* MUP 361

MUP 462 - Private Lessons: Oboe - 1 to 2
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. *Prerequisite:* MUP 362

MUP 463 - Private Lessons: Clarinet - 1 to 2
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. *Prerequisite:* MUP 363

MUP 464 - Private Lessons: Saxophone - 1 to 2
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. *Prerequisite:* MUP 364

MUP 466 - Private Lessons: Bassoon - 1 to 2
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. *Prerequisite:* MUP 366

MUP 494 - Private Lessons: Bass - 1 to 2
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. *Prerequisite:* MUP 394

MUP 495 - Private Lessons: Guitar - 1 to 2
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. *Prerequisite:* MUP 395

MUP 497 - Senior Recital/Project - 0
One-hour recital presented in the senior year.

Department of Philosophy

Chair: Harold Kincaid
Faculty: Abrams, Angner, Arnold, Bak, Benditt, Holcombe, Kincaid, Pence, Price, Ross, Stephens, Sullivan, Vollmer, Whall

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. These include 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. Through out the major goal is to teach students to present and critically analyze arguments, both orally and written. 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 Web site: www.uab.edu/philosophy.

There are three different ways in which to major in philosophy at UAB: three tracks towards the bachelor's degree. These include the general track, the individually designed track, and 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. Concentrations are available in applied ethics, bioethics, cognitive science, history of ideas, law and society, religion, and science and the modern world. Students graduating in the honors track receive a certificate at the spring Honors Convocation and graduate "With Honors in Philosophy."

MAJOR REQUIREMENTS FOR PHILOSOPHY

Requirement	Fulfilled By:	Hrs.
Grade Requirement	No course in which a grade below C has been earned may be counted toward the major.	-
Philosophy Requirements	Select 10 courses from **Philosophy (PHL)** courses, with 7 courses at the 200-level or higher. **PHL 100 PHL 115 PHL 116 PHL 120 PHL 125** **PHL 135 PHL 203 PHL 204 PHL 205 PHL 208** **PHL 215 PHL 220 PHL 230 PHL 232 PHL 233** **PHL 239 PHL 240 PHL 270 PHL 290 PHL 291** **PHL 292 PHL 314 PHL 315 PHL 320 PHL 321** **PHL 322 PHL 330 PHL 335 PHL 341 PHL 342** **PHL 348 PHL 350 PHL 372 PHL 375 PHL 405** **PHL 408 PHL 435 PHL 443 PHL 470 PHL 490** **PHL 491 PHL 492 PHL 499 PHL 517 PHL 590** **PHL 770 PHL 790 PHL 791 PHL 792** *Note: Many courses eligible to fulfill this requirement will also satisfy Track B of the School-Wide Requirements.*	30
	Total Major Requirements:	**30**

Concentration: Philosophy and Political Economy

The Department of Philosophy together with the Department of Finance, Economics and Quantitative Methods offer a concentration in **Philosophy and Political Economy**.

The concentration focuses on topics in the intersection of Philosophy, Economics, and Political Science. There are many reasons why it makes sense to study these fields together. Recent disciplinary trends make any firm separation between economics, political economy, moral and social philosophy and philosophy of social science arbitrary. There is a standard set of problems and tools for dealing with them that belong to no one discipline.

Students in the PPE concentration will work with faculty in both departments. Many of these faculty specialize on topics in the intersection of Philosophy, Politics and Economics, and their work is recognized world-wide. Students with an interest in fundamental research will have ample opportunity to learn what is going on at the research frontier.

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.

To get the PPE degree a student must get a Bachelor's degree in Philosophy and satisfy additional requirements. Students who may be interested in getting a PPE degree are encouraged to contact Dr. Erik Angner at angner@uab.edu, who will be happy to answer your questions.

REQUIREMENTS FOR PHILOSOPHY AND POLITICAL ECONOMY CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Grade Requirement	No course in which a grade below C has been earned may be counted toward the major.	-
Spine requirements	1. MA 109 Survey of Calculus 2. One of many introductory statistics courses offered in SBS or SOB 3. PHL 322 Behavioral Economics 4. PHL 290 Competition and Cooperation (Game Theory) 5. PHL 491 Philosophy and Political Economy	15
Economics Requirements	EC 210 Principles of Microeconomics EC 211 Principles of Macroeconomics EC 304 Intermediate Microeconomics **Any course approved by the Concentration Coordinator or from the following:** **EC 301 EC 303 EC 304 EC 305 EC 308** **EC 310 EC 320 EC 330 EC 401 EC 403** **EC 404 EC 405 EC 407 EC 408 EC 409** **EC 411 EC 413 EC 414 EC 420 EC 425** **EC 440 EC 450 EC 460 EC 490 EC 491** **EC 499 EC 540**	12
Major Electives	Select 7 PHL courses from below, with no more than 9 hours at the 100 level **PHL 100 PHL 115 PHL 116 PHL 120 PHL 125** **PHL 135 PHL 203 PHL 204 PHL 205 PHL 208** **PHL 215 PHL 220 PHL 230 PHL 232 PHL 233** **PHL 239 PHL 240 PHL 270 PHL 290 PHL 291** **PHL 292 PHL 314 PHL 315 PHL 320 PHL 321** **PHL 322 PHL 330 PHL 335 PHL 341 PHL 342** **PHL 348 PHL 350 PHL 372 PHL 375 PHL 405** **PHL 408 PHL 435 PHL 443 PHL 470 PHL 490** **PHL 491 PHL 492 PHL 499 PHL 517 PHL 590** **PHL 770 PHL 790 PHL 791 PHL 792**	21
	Total Non Philosophy Concentration Requirements:	**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. Criteria for entrance to the program are:

- at least sophomore standing;
- at least nine semester hours in UAB philosophy courses;
- at least a 3.30 GPA in UAB philosophy course work; and
- application to the department chair or recommendation by a faculty member of the department.

ADDITIONAL REQUIREMENTS FOR HONORS IN PHILOSOPHY DEGREE

Requirement	Fulfilled By:	Hrs.
Course Grade and GPA Requirement	No course in which a grade below C has been earned may be counted toward the major. A 3.33 GPA in **Philosophy (PHL)** courses is required.	-
Ethics and Value Theory	Select two courses from the following: **PHL 115 PHL 125 PHL 230** **PHL 116 PHL 215 PHL 335** *Note: Any of the Philosophy courses listed above or in the next two requirements will also satisfy Track B of the School-Wide Requirements.*	6
History of Philosophy	Select two courses from the following: **PHL 205 PHL 239 PHL 341 PHL 343** **PHL 215 PHL 240 PHL 342 PHL 348**	6
Epistemology/ Metaphysics/ Philosophy of Mind/ Logic/ Philosophy of Language/ Philosophy of Science	Select three courses from the following: **PHL 215 PHL 270 PHL 308 PHL 350 PHL 375** **PHL 220 PHL 305 PHL 320 PHL 372 PHL 470**	9
Seminar	Select one course from the following: **PHL 490 PHL 491 PHL 492**	3
Philosophy Electives	Select three courses from the following Philosophy (PHL) courses: **PHL 100 PHL 115 PHL 116 PHL 120 PHL 125** **PHL 135 PHL 203 PHL 204 PHL 205 PHL 208** **PHL 215 PHL 220 PHL 230 PHL 232 PHL 233** **PHL 239 PHL 240 PHL 270 PHL 290 PHL 291** **PHL 292 PHL 314 PHL 315 PHL 320 PHL 321** **PHL 322 PHL 330 PHL 335 PHL 341 PHL 342** **PHL 348 PHL 350 PHL 372 PHL 375 PHL 405** **PHL 408 PHL 435 PHL 443 PHL 470 PHL 490** **PHL 491 PHL 492 PHL 499 PHL 517 PHL 590** **PHL 770 PHL 790 PHL 791 PHL 792**	9
Honors Thesis	Take the following course (to register for this course you must first contact the Department of Philosophy): **PHL 499**	3
	Total Major Requirements:	**36**

MINOR REQUIREMENTS FOR PHILOSOPHY

Requirement	Fulfilled By:	Hrs.
Philosophy Requirement	Select 18 hours from **Philosophy (PHL)** courses, with at least 9 hours at the 200-level or above.	18
	Total Minor Requirements:	**18**

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.
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

Requirement	Fulfilled By:	Hrs.
Required Philosophy Courses	Take the following courses: **PHL 135 PHL 230 PHL 335**	9
Ethical Theory	Select one of the following courses: **PHL 125 PHL 215 PHL 315**	3
Justice Sciences/Political Science Electives	Select two of the following courses (PSC 441 and PSC 442 cannot both be taken): **JS 230 PSC 340 PSC 441 PSC 442**	6
	Total Minor Requirements:	**18**

Course Descriptions
Philosophy (PHL)

PHL 100 - Intro to Philosophy - 3
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
Today's moral problems and dilemmas; elementary methods and concepts of moral philosophy. Problems typically include, among others, abortion, euthanasia, capital punishment, and respect for animals and nature.

PHL 116 - Bioethics - 3
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.

PHL 120 - Practical Reasoning - 3
Nature of reason and inference, informal reasoning skills, and assessment of arguments.

PHL 125 - Intro to Ethics - 3
Elements of moral philosophy. Moral objectivity; connections among morality, rationality, and religion; nature and significance of moral value.

PHL 203 - Philosophy of Religion - 3
Religion; its nature, warrant, and significance. God, evil, religious experience, faith, and reason.

PHL 204 - Philosophy and Christianity - 3
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
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
Art; its nature, scope, and significance. Concepts of expression, beauty, artistic creation, and standards of art criticism.

PHL 215 - History of Moral Philosophy - 3
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 291 - Topics in Philosophy - 3
In-depth examination of one or more problems, authors, or ideas of historical or current interest.

PHL 292 - Topics in Philosophy - 3
In-depth examination of one or more problems, authors, or ideas of historical or current interest.

PHL 314 - Philosophy and Feminism - 3
Feminism; conceptual foundations, scope, and applications. Problems typically include, among others, feminist concepts of gender, reasoning, knowledge, and ethics.

PHL 320 - Intermediate Symbolic Logic - 3
Quantification theory; identity and definite description; soundness and completeness; skill in formal proof and ability to express arguments from natural language into artificial language. *Prerequisites:* MA 120 and PHL 220

PHL 321 - Cooperation and Competition - 3
This is an introductory course in game theory. Topics include game forms, Nash and sub-game-perfect equilibrium, von Neumann-Morgenstern utility theory, design and solution of games, strategic implications of uncertainty and information asymmetries, institutions and elementary mechanism design, and basic evolutionary game theory. All topics are taught by application to examples from business, politics, law and individual behavior. Course work will include analysis of philosophical implications and applications. *Prerequisite:* EC 210

PHL 322 - Phil Issues in Behav Economics - 3
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. *Prerequisite:* EC 210

PHL 330 - Libertarianism A Political PHL - 3
Libertarians believe that the legitimate functions of government are limited to protecting peoples 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 libertarian vision of the proper role of government and the philosophical foundations of that vision. Readings are from historical and contemporary sources.

PHL 335 - Philosophy of Law - 3
Nature and function of law. Justification of punishment, legal responsibility, judicial review, regulation of pornography, and Constitutional interpretation.

PHL 341 - History of Phil: Descartes - 3
Philosophy in modern era, focusing on continental rationalism and British empiricism; emphasis on theories of knowledge and reality; science, religion, and modernism.

PHL 342 - History of Phil: Kant-19th c - 3
Western philosophic tradition from Kant through end of nineteenth century. Kant, Hegel, Marx, Kierkegaard, and Mill, among others.

PHL 348 - American Philosophy - 3
Major philosophers of classical American period; Pierce, James, and Dewey. Origins and nature of American pragmatism.

PHL 350 - Philosophy of Language - 3
Language; its nature, structure, and uses. Reference, meaning, communication, and interpretation; Russell, Wittgenstein, Chomsky, and Quine, among others.

PHL 372 - Minds and Machines - 3
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.

PHL 375 - Philosophy of Mind - 3
Mind; its nature, forms, and functions. Concepts of mind/body, consciousness, rationality, and personal identity; free will.

PHL 405 - Epistemology - 3
Human knowledge; its nature, sources, and limits. Concepts of truth, objectivity, evidence, and belief.

PHL 408 - Metaphysics:Theory of Reality - 3
Reality; its basic elements, principles of existence and identity, and appearance and reality. Concepts of cause, matter, mind, realism, and anti-realism.

PHL 435 - Philosophy of Law - 3
Nature and function of law. Justification of punishment, legal responsibility, judicial review, regulation of pornography, and Constitutional interpretation. Requires additional work not required in PHL 335 hours.

PHL 443 - History of Phil: 20th century - 3
Major movements and problems of twentieth century philosophy. Moore, Russell, Wittgenstein, and Quine, among others.

PHL 470 - Phil Probs in Natural/Soc Sci - 3
Nature and uses of science. Concepts of explanation, confirmation, scientific law, and theory; special problems in sciences.

PHL 491 - Philosophy Seminar - 3
In-depth examination of one or more problems, authors, or ideas of current or historical interest.

PHL 492 - Philosophy Seminar - 3
In-depth examination of one or more problems, authors, or ideas of current or historical interest.

PHL 499 - Directed Studies - 1 to 3
Special arrangement opportunity for in-depth study.

Department of Theatre

Chair: Will York
Associate Chair: Kimberly A. Schnormeier
Faculty: Allison, Cannon, Haarbauer (Emeritus), Hall, Hubbard, Ibsen (Emerita), Johnson, Koskinen, McLernon, Pollard, Shackleford, Schnormeier, Simon, Warner, York, Zuckerman

The Department of Theatre holds the philosophy that classroom study and practical experience are of equal and complementary value. Production opportunities are available in performance, design/tech and film and video projects at the Morris K. Sirote Theatre and the Odess Theatre in the Alys Robinson Stephens Performing Arts Center. In addition to departmental requirements, note the School of Arts and Humanities requirements.

The Department of Theatre offers a major and minor in theatre with three areas of emphasis in the major: general theatre, pre-professional performance and pre-professional design and production. Theatre/speech is an approved area of concentration for the N–12 certificate in the School of Education.

Theater majors are expected to maintain grades, to be active 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 further opportunities in the program

Theatre faculty conduct individual advisement to assist students in progressing toward their academic and professional goals. For more information, call (205) 934-3236.

Scholarships, Stipends, and Other Financial Aid

In addition to university financial aid packages, specific stipends and scholarships are available through the Department of Theatre to qualified students. Students holding stipends and scholarships must remain active in department activities and must complete their core requirements in a timely fashion. For further information concerning departmental financial aid, call (205) 934-3236.

Theatre Major

Theatre majors choose from three concentrations, depending on their primary area of interest. 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 and lighting. The department also offers an honors program for qualified students. All three tracks share a common 30 hour theatre core.

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 THR 124, 125, 154, 210, 235 and 236;
Have completed 60 hours toward the BA degree; and
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 THR 496—Honors Project;
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: Will York, Chair, Department of Theatre, ASC 255 , (205) 934-3236, [yorkwill@uab.edu].

THEATRE MAJOR REQUIREMENTS: GENERAL THEATRE CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **THR 124 THR 125 THR 154 THR 160 THR 210** **THR 235 THR 365 THR 481 THR 482 THR 483** **THR 491**	30
Theatre Design	3 hours chosen from: **THR 323 THR 326 THR 327**	3
Theatre Performance	6 hours chosen from: **THR 202 THR 254 THR 377** **THR 203 THR 318 THR 465** **THR 217 THR 355**	6
Theatre Writing	3 hours chosen from: **THR 200 THR 216 THR 340** **THR 215 THR 300 THR 350**	3
Theatre Practicum	Complete three hours of THR 204. One hour may be performance, two hours must be technical: **THR 204**	3
Theatre Electives	Select six hours from the following courses: **THR 105 THR 215 THR 316 THR 360 THR 472** **THR 112 THR 216 THR 318 THR 377 THR 473** **THR 200 THR 217 THR 323 THR 404 THR 474** **THR 202 THR 226 THR 326 THR 455 THR 477** **THR 203 THR 230 THR 327 THR 462 THR 490** **THR 204 THR 254 THR 340 THR 465 THR 496** **THR 206 THR 300 THR 350 THR 470 THR 499** **THR 207 THR 315 THR 355 THR 471** *NOTE: Students may NOT apply **THR 105** or **THR 200** toward both this requirement and the Core Curriculum Area II requirement.*	6
	Total Major Requirements:	**51**

MAJOR REQUIREMENTS FOR THEATRE WITH PREPROFESSIONAL DESIGN & TECHNOLOGY CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **THR 160 THR 154 THR 365 THR 483** **THR 124 THR 210 THR 481 THR 491** **THR 125 THR 235 THR 482**	30
Theatre Design	Take all of the following courses: **THR 323 THR 326 THR 327**	9

Theatre Practicum	Complete three hours of THR 204. One hour may be performance, two hours must be technical: **THR 204**	3
Design & Technology Requirements	Take the following course: **THR 226**	3
Period Style/Costume Design	Select one of the following courses: **THR 340** **THR 350**	3
Design & Technology Electives	Select six hours from the following courses: **THR 470** **THR 472** **THR 474** **THR 471** **THR 473**	6
	MAJOR REQUIREMENTS	**54**

MAJOR REQUIREMENTS FOR THEATRE WITH PRE-PROFESSIONAL PERFORMANCE CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **THR 160** **THR 154** **THR 365** **THR 483** **THR 124** **THR 210** **THR 481** **THR 491** **THR 125** **THR 235** **THR 482**	30
Theatre Practicum	Complete three hours of Theatre Practicum. One hour must be performance, two hours must be technical. **THR 204**	3
Performance Requirements	Take all of the following courses: **THR 202** **THR 217** **THR 318** **THR 203** **THR 254** **THR 355**	18
Performance Electives	Select 3 hours from the following courses: **THR 377** **THR 404** **THR 455** **THR 465**	3
	Total Major Requirements:	**54**

MINOR REQUIREMENTS FOR THEATRE

Requirement	Fulfilled By:	Hrs.
Required Theatre	Take the following courses: **THR 154** **THR 210** **THR 235**	9
Theatre Technology	Take both of the following courses: **THR 124** **THR 125**	6
Theatre History	Select one of the following courses: **THR 481** **THR 482** **THR 483**	3
Theatre Electives	Select six hours from following **Theatre (THR)** courses. **THR 106** **THR 107** **THR 112** **THR 2O2** **THR 203** **THR 204** **THR 206** **THR 207** **THR 215** **THR 216** **THR 217** **THR 226** **THR 230** **THR 254** **THR 300** **THR 315** **THR 316** **THR 318** **THR 323** **THR 326** **THR 327** **THR 340** **THR 350** **THR 355** **THR 365** **THR 377** **THR 404** **THR 420** **THR 455** **THR 462** **THR 465** **THR 470** **THR 471** **THR 472** **THR 473** **THR 474** **THR 477** **THR 481** **THR 482** **THR 483** **THR 490** *NOTE: A course may not be used to satisfy this requirement and the core curriculum.*	6
	Total Minor Requirements:	**24**

Course Descriptions
Theatre (THR)

THR 100 - Intro to Theatre - 3
Understanding the theatre experience through class lectures, reading and writing assignments, demonstrations, discussions, and viewing live evening performances.

THR 105 - Intro to Dance - 3
Understanding the dance experience through class lectures, demonstrations, discussions, and viewing performances.

THR 106 - Jazz I - 3
Basic movement and combinations based on modern jazz, Broadway/theatrical styles, and popular jazz forms.

THR 107 - Tap I - 3
Basic rhythmic studies and combinations based on Broadway/theatrical tap styles.

THR 124 - Theater Tech: Scenery/Lighting - 3
Scenic construction techniques and execution of stage lighting via lectures, demonstrations, and practical application. Emphasis in tools, materials and procedure. 30 lab hours outside of scheduled classes required.

THR 125 - Theater Tech: Costumes/Makeup - 3
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 154 - Beginning Acting - 3
Introduction to the basic principles of acting. Exercises in talking and listening, actions and objectives, subtext and internal monologue.

THR 160 - First Year Exper. in Theatre - 1
The objective of this course is to introduce incoming freshmen to an education in the performing arts in context of the university. It is meant to help prepare students for a successful collegiate career in the study of theatre. Course required for majors in the first fall semester of residency.

THR 200 - Plays on Film - 3
Understanding major genres of drama through lecture, analysis, reading scripts, and viewing performances.

THR 202 - Beginning Voice - 3
Entry level course in speech and tonal production exploring the techniques of the Lessac system for training the voice.

THR 203 - Intermediate Voice - 3
Second course in a sequence of voice training for the actor based on the Lessac system of vocal training. Concentration in applying Lessac techniques in contemporary scene study. *Prerequisite:* THR 202

THR 204 - Beginning Production Practicum - 1 to 2
Practical directed production experience in conjunction with actual production. May be repeated 3 times for a total of 3 credit hours.

THR 205 - Beginning Performance Pract. - 1 to 2
Practical directed performance experience in conjunction with actual production. Requires audition. May be repeated.

THR 206 - Jazz II - 3
Further exploration of jazz idiom, musicality, and technique, with emphasis on theatrical and choreographic styles. *Prerequisite:* THR 106

THR 207 - Tap II - 3
Further exploration of tap genre, with emphasis on musicality and technique. *Prerequisite:* THR 107

THR 210 - Intro to Theatrical Design - 3
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 - 3
Study and practicum in playwriting with emphasis on creating works for production and/or publication. *Prerequisite:* Permission of instructor.

THR 216 - Beginning Screenwriting - 3
Study and practicum in writing scripts for TV and film, with emphasis on creating works for production and/or sale. *Prerequisites:* EH 101 and EH 102 and Permission of instructor.

THR 226 - Drawing for Theatre - 3
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. *Prerequisite:* THR 210

THR 230 - Stage Management - 3
The role and responsibilities of the stage manager for live theatrical events. Emphasis on managerial theory and practice.

THR 235 - Play Analysis - 3
Dramatic structure for live performance. *Prerequisites:* EH 101 and EH 102

THR 254 - Intermediate Acting - 3
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. *Prerequisite:* THR 154

THR 300 - African-American Creative Exp - 3
Contributions of African Americans to theatre and dance. Creative process and application of creative process through live performance. *Prerequisites:* THR 100 or THR 200 or THR 235

THR 316 - Advanced Screenwriting - 3
Advanced study and practicum in writing feature-length screenplays, with emphasis on creating works for production, sale, and/or publication. *Prerequisite:* THR 216

THR 318 - Stage Combat - 3
Fighting for the stage and screen.

THR 323 - Lighting Design - 3
Interpreting visual needs of scripts into lighting and color designs and translating designs to paper. *Prerequisites:* THR 124 and THR 210

THR 326 - Scenic Design - 3
Exploration of the theory and practice of scene design for live performance. *Prerequisites:* THR 124 and THR 210

THR 327 - Costume Design - 3
Exploration of the theory and practice of costume design for live performance. Basic principles of design, characterization and rendering technique. *Prerequisites:* THR 125 and THR 210

THR 340 - Period Styles for the Theatre - 3
Systematic study of architecture, furniture, and decorative arts of different historical eras, emphasizing frequently produced periods. Influences which create historical style.

THR 350 - Costume History - 3
History of clothing from prehistoric times to present day; societal, cultural, and economic influences. Emphasis on frequently produced periods. *Prerequisite:* EH 102

THR 355 - Advanced Acting - 3
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 and THR 202 and THR 203 and THR 254

THR 360 - Internship - 3
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 365 - Directing I - 3
Basic principles of staging, picturization, composition, focus, and movement. Text analysis, directorial scoring, and actor/director dynamics. *Prerequisites:* THR 154 and THR 210 and THR 235

THR 377 - Acting for the Camera - 3
Acting in film and television

THR 404 - Advanced Production Practicum - 1 to 2
Practical directed production experience in conjunction with actual production. May be repeated. Prior to taking THR 404, student must have completed the 3 required practicum credits. 1 to 2 hours.

THR 405 - Advanced Performance Practicum - 1 to 2
Practical directed performance experience in conjunction with actual production. Requires audition. May be repeated. Prior to taking THR 405, student must have completed the 3 required practicum credits. 1 to 2 hours.

THR 420 - Teaching Theater in Sec School - 3
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 455 - Advanced Studio in Performance - 3
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 and THR 254 and THR 355

THR 462 - Special Workshop - 1 to 3
Specialized subjects taught as opportunity allows. May be repeated for credit.

THR 465 - Directing II - 3
Preparing performances. Director/actor communication in rehearsal, rehearsal motifs, rehearsal organization, and finishing production. Actual direction of one-act play for laboratory performance. *Prerequisite:* THR 365

THR 470 - Project Design/Prod - 1 to 3
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.

THR 471 - Spec Tpc: Adv Studio Scenery - 3
Advanced exploration of special topics related to scenic design and production. May be repeated for credit. *Prerequisite:* THR 326

THR 472 - Spec Tpc: Adv Studio Costumes - 3
Advanced exploration of special topics related to costume design and production. May be repeated for credit. *Prerequisite:* THR 327

THR 473 - Spec Tpc: Adv Studio Lighting - 3
Advanced exploration of special topics related to lighting design and production. May be repeated for credit. *Prerequisite:* THR 323

THR 474 - Spec Tpc: Adv Studio in Audio - 3
Advanced exploration of special topics related to audio design and production. May be repeated for credit. *Prerequisites:* THR 210 and THR 235

THR 477 - Script to Screen - 3
Intensive practicum in the process of creating original works for film and video, from both scriptwriting and performance perspectives. *Prerequisites:* THR 216 or THR 377

THR 481 - Theater History: to 1700 - 3
Important theatres, personalities, and theories of drama; supplemental reading of selected plays. *Prerequisite:* THR 235

THR 482 - Theater History 1700-Realism - 3
Important theatres, personalities, and theories of drama; supplemental reading of selected plays. *Prerequisite:* THR 235

THR 483 - Theater History: Non-Realism - 3
Important theatres, personalities, and theories of drama; supplemental reading of selected plays. *Prerequisite:* THR 235

THR 490 - Production Concepts Seminar - 3
Creation and detailed proposals for implementation of production concepts for selected play scripts based on analysis of script and target audience. *Prerequisites:* THR 210 and THR 235 and THR 365

THR 491 - Theatre Capstone - 2
Exploration of the role of theatre and the theatre artist in the macrocosm of the world. Synthesis and assessment of the academic theatre experience; exploration of future options; and preparation and evaluation of portfolios, audition materials, resumes and interview strategies. Seminar required for majors in the last fall semester of residency. Must be taken within the last two terms before graduation. Theatre major, final year in the major.

THR 496 - Honors Project - 3
Admission into the departmental honors program.

THR 499 - Individual Studies - 1 to 3

School of Business

Dean: David R. Klock
Associate Dean, Faculty Development & Research: Eric P. Jack
Associate Dean, Programs & Outreach: Karen N. Kennedy
Assistant Dean, Corporate Relations & Administration: Joseph F. Casey

UAB's School of Business is accredited at the baccalaureate and master's level 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 Information Systems; Finance, Economics, and Quantitative Methods; Management and Organization; and Marketing and Industrial Distribution; 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. Concentrations in the economics major, the finance major, and the industrial distribution major are also offered. 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 and Master of Accounting degrees. Programs resulting in a dual degree are offered in cooperation with the School of Public Health (MPH/MBA), the School of Health Professions (MSHA/MBA) and the School of Nursing (MSN/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

Our mission is to deliver undergraduate and graduate business programs of superior quality and relevance through excellent instruction, scholarly contributions and service to our students and other constituencies. UAB, located in the largest business community in the state, has a School of Business committed to the development and delivery of innovative and collaborative programs with business firms, schools within UAB, and other organizations.

Vision Statement

We see a future where the faculty and staff of the UAB School of Business work together to create and govern relevant, high quality, and innovative programs that serve our community.

We see a future where the UAB School of Business is widely recognized as one of the best and most innovative schools of business in the region.

We see a future where regional businesses and other organizations seek out the UAB School of Business for partnerships in meeting their educational, consulting, and service needs.

We see a future where employers look to our students first for qualified employees.

We see a future where, when people of the region think of the University of Alabama at Birmingham, they think of business as well as health care.

Values Statement

We value:

- Quality teaching, scholarship, and professional and public service by faculty, staff, and students;
- Relevance and innovation in curriculum, instructional methods, scholarship, and professional and public service;

- 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;
- A climate that fosters continuous improvement.

School of Business Honors Program

Purpose

The School of Business Honors Program is designated for qualified, self-motivated, advanced students pursuing business-related undergraduate degrees. Through a mentored research program format, students will develop research and communication skills in preparation for a professional career and/or graduate study.

Eligibility

For acceptance into the School of Business Honors Program, students must:

- Have earned a 3.5 GPA in Pre-Business and Business courses attempted;
- Have earned a 3.0 GPA overall;
- Be majoring in the School of Business or in Economics in the School of Social and Behavioral Sciences;
- Have submitted a Business Honors Program Application form;
- Have been selected by the Business Honors Committee from application and transcript evaluation.

Requirements

- A 3.5 GPA in Pre-Business and Business courses attempted;
- A 3.0 GPA overall;
- Enroll Spring Semester of junior year in BUS 300, Business Honors Research Methods for 3 credit hours and BUS 301, Business Honors Reading Seminar for 1 credit hour;
- Enroll Fall and Spring Semester of senior year in BUS 400, Business Honors Seminar for 3 credit hours each semester;
- An oral presentation of a completed research project before a colloquium of other business honors students, the Business Honors Committee, School of Business 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 School of Business Honors Program, contact:

UAB School of Business Honors Program Director
1530 3rd Avenue, South/ BEC 203A
Birmingham, AL 35294-4460
Telephone (205) 934-8813
E-mail: sculver@uab.edu

Admission Requirements

Beginning Freshmen

Beginning freshmen, admitted with conditional or unconditional status, may enroll in the 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 School of Business. UAB's pre-business requirements include those defined in the Alabama General Studies articulation program for a major in business, plus a required course in public speaking and business calculus. The public speaking requirement may be taken as part of Area II and the business 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 and former students are expected to meet catalog requirements in effect at the time of their re-entry.

Only 60 semester hours of two-year college coursework can be applied toward a UAB degree.

Transfers from Other Institutions

Admission to the School of Business is restricted to those students who are admitted to UAB as degree-seeking students. Students must have a minimum 2.0 grade point average, as well as a minimum 2.0 grade point average in all business courses attempted.

Transfers within UAB

Degree-seeking students changing their major from schools within UAB will be admitted to the School of Business provided they have a minimum 2.0 overall grade point average and a minimum 2.0 UAB grade point average, as well as a 2.0 grade point average in all business courses attempted. All pre-business requirements must be met before upper-level business courses may be taken.

Students Readmitted to UAB

Degree-seeking students readmitted to UAB may be admitted to the School of Business if they have an overall average of at least C in all courses attempted and in courses attempted at UAB.

Non-Degree Seeking Students

Admission of non-degree seeking students to the School of Business is restricted to only 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 as "undeclared" majors after their initial meeting with an advisor. They may enroll in any undergraduate business course for which they have completed the specified course prerequisites. Students having less than a C average in prerequisite courses or those who took 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 may be classified under the appropriate major after their initial meeting with an advisor. 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 attend UAB for one or two terms and attempt 300- to 400-level business courses must petition in the undergraduate advisors' office (Room 203, BEC) and must:

1. Provide a letter of good standing from their home institution for a maximum of two consecutive semesters
2. It is the student's responsibility to verify with the advisor at the home institution that courses taken at the UAB School of Business will transfer back to the home institution.
3. Meet the UAB prerequisites for the courses to be taken. Unofficial transcripts should be brought to the undergraduate advisors' office in the School of Business at the time a petition is made.

Pre-Business Classification

All undergraduate students entering the School of Business are admitted with a pre-business classification. Degree-seeking students remain in this classification until they have satisfied the **Core Curriculum for Business** and the **Pre-Business Requirements** outlined below.

Students listed in the pre-business classification may not register for any upper-level business courses (those numbered 300 or higher). Any request for deviations from the requirements must be petitioned through the Undergraduate Advising Office in the School of Business.

To have the pre-business classification changed; students must apply through the Undergraduate Advising Office in the School of Business. The Registrar's Office cannot make this change. School of Business advisors are available in room 203 of the Business-Engineering Complex or by telephone (205) 934-8813 or via email at [undergrad@business.uab.edu]

Curriculum Outline

The 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 freshman and sophomore requirements of the School of Business concur with the UAB Core Curriculum requirements. Students, in cooperation with their advisor, should sequence the first two-year requirements in a manner to ensure that the courses will be substantially completed before beginning the junior year.

Freshman and Sophomore Years

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses (must earn a C or better): **EH 101 EH 102**	6
Area II: Literature	Select one of the following sequences: **EH 217 + EH 218 EH 223 + EH 224** **EH 221 + EH 222**	6
Area II: Fine Arts/Humanities	Select one of the following courses: **AAS 200 CHI 102 EH 223 GN 101 JPA 102 PHL 125 THR 105** **ARA 101 CM 101 EH 224 GN 102 LA 101 PHL 203 THR 200** **ARA 102 CM 105 FLL 220 GN 201 LA 102 SPA 101** **ARH 101 EH 216 FR 101 GN 202 MU 120 SPA 102** **ARH 203 EH 217 FR 102 GN 204 PHL 100 SPA 108** **ARH 204 EH 218 FR 108 ITL 101 PHL 115 SPA 201** **ARH 206 EH 221 FR 201 ITL 102 PHL 116 SPA 202** **CHI 101 EH 222 FR 202 JPA 101 PHL 120 THR 100** *NOTE: Completing CM 101 will satisfy this requirement as well as the Pre-Business CM*	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 125 MA 227** **MA 106 MA 109 MA 126 MA 252** *NOTE: Completing MA 109, with a C, will satisfy this requirement as well as the Pre-Business MA 109 requirement.*	3
Area III: Natural Sciences	Select two of the following courses (with laboratories): **AST 101/AST 111 CH 115/CH 116** **AST 102/AST 112 CH 117/CH 118** **AST 103/AST 113 ENV 108/ENV 109** **AST 105/AST 115 ES 101/ES 102** **BY 101/BY 102 ES 103/ES 104** **BY 111/BY 112 PH 201/201L** **BY 123 /BY 123L PH 202/202L** **BY 124/BY 124L PH 221/221L** **CH 105/CH 106 PH 222/222L** **CH 107/CH 108 PHS 101** *NOTE: ID and MESD majors contact Advisor for requirements (1)*	8
Area IV: History	Select one of the following courses: **HY 101 HY 104 HY 120** **HY 102 HY 105 HY 121**	3
Area IV: Economics	Take the following courses: **EC 210 EC 211**	6
Area IV: Anthropology, Psychology, and Sociology	Select one of the following courses: **ANTH 101 PY 101 SOC 100**	3
	Total Core Curriculum Requirements:	**41**

PRE-BUSINESS REQUIREMENTS

Requirement	Fulfilled By:	Hrs.
Communication Studies / Business Calculus Requirements	Take the following courses: **CM 101 MA 109** *Note: Completing CM 101 will automatically satisfy the Core Curriculum Area II: Fine Arts/Humanities requirement. Completing MA 109, with a C, will automatically satisfy the Core Curriculum Area III: Math Requirement.*	6

GPA Requirement	Students must have at least; 2.0 overall GPA (including all UAB and transfer courses); 2.0 UAB GPA (all UAB courses); 2.0 Pre-Business GPA. *The Pre-Business GPA calculates **all attempts** in the Pre-Business courses (which are listed below), except subsequent repeats of a Pre-Business course in which a C has already been earned.*	-
Pre-Business Courses	Take the following courses (must earn at least a grade C in each) See above GPA requirement. **AC 200** **EC 210** **LS 246** **QM 214** **BUS 101** **AC 201** **EC 211** **IS 103** **QM 215** *Note: Completing EC 210 and EC 211 will automatically satisfy 6 hrs. of the Core Curriculum Area IV: Economics requirement.*	26
	Total Pre-Business Requirements:	**32**

Junior and Senior Years

Requirement	Fulfilled By:	Hrs.
Required Courses	Take the Following Courses **BUS 350** **FN 310** **MG 302** **IS 303** **MK303** **MG 403** (2)	18
International Business (3)	*One 400-level international business (IB) course*	3
Economics by major Department (4)	*One 300- or 400-level EC course approved*	3
Major Courses (5)	*Major Courses*	21-27
Major Capstone Course (6)	*Major Capstone Course*	3
Electives (7)	*Elective Courses*	6-12
	Total Requirements:	**12**

(1) Industrial Distribution (ID) majors select two natural sciences from: CH 105/106, CH 107/108, PH 201/201L, PH 202/202L, and PHS 101. Medical Equipment and Supplies Distribution concentration (MESD) majors take one BY and one CH.
(2) Finance majors take QM 350, Quantitative Methods for Finance.
(3) All majors must complete one international business course from: IB 407, International Economics, IB 412, International Financial Management, IB 415, International Business Dynamics or IB 416, International Marketing. Finance majors take IB 412. Economics and Quantitative Methods majors take IB 407. IB 495, Business Study Abroad, may be used with permission of student's department chair.
(4) Accounting and Information Systems majors take EC 301, Money and Banking or EC 310, Managerial Economics or EC 420, Applied Forecasting. Economics and Quantitative Methods majors take EC 310, Managerial Economics. Financial Management majors take EC 304, Microeconomics or EC 310, Managerial Economics and Investments and Institutions majors take EC 301, Money and Banking. Marketing, Industrial Distribution and Medical Equipment and Supplies Distribution majors take EC 301, Money and Banking or EC 320, Behavioral Economics or EC 330, Cooperation and Competition or EC 420, Applied Forecasting.
(5) See requirements listed under individual departments.
(6) Capstone courses: Accounting majors take AC 495. Information Systems majors take IS 495. Financial Management majors take FN 496. Investments and Institutions majors take FN 495. Marketing majors take MK 450. Industrial Distribution and Medical Equipment and Supplies Distribution majors take MK 435. Economics, Management and Quantitative Methods majors take BUS 450.
(7) Industrials Distribution majors take ME 101 as an elective.
Medical Equipment and Supplies Distribution (MESD) majors take BY 115, Human Anatomy 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 School of Business.

1. Students newly admitted to upper-level business courses must earn at least a 2.0 grade point average in the first 12 semester hours of upper-level business courses attempted at UAB. Students failing to meet this requirement will be subject to dismissal from the School of Business.

2. Students may not enroll more than three times in any upper-level business course. Enrollment is determined by a grade other than W on a student's transcript.

3. 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).

4. 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 Undergraduate Programs. Failure to receive such permission may result in the non-applicability of courses completed elsewhere.

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 effective at the time they re-enter UAB.

GPA Graduation Requirement

The School of Business GPA (grade point average) graduation requirement is in addition to the general UAB requirements. Students must earn at least a 2.0 GPA in both of the following:

1. All business courses attempted for the degree, including business courses taken as electives
2. All courses required for the departmental major (see specific major for any deviation).

Note: Finance majors must achieve a School of Business GPA (grade point average) of 2.5 and a minimum grade of C or better in all business core courses and in required major courses. For purposes of this computation, a course is counted each time the student is registered and receives a grade (A, B, C, D, F). The course forgiveness policy applies to the computation of the overall GPA but not to the computations of the GPA in business courses and in required major courses.

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.

Business Minors

The School of Business offers minors in accounting, business administration, economic analysis and policy, finance, information systems, management, marketing, and quantitative methods. These minors are available for students in all schools. The School of Social and Behavioral Sciences houses an alternative economics minor.

The following requirements apply to minors:

1. Students must meet the same grade point requirements in required pre-business classes as majors before registering for upper-level business courses. Once a grade of C or better has been earned in one of the lower-level pre-business courses required for the minor, subsequent repeats of that course will not be counted toward the minimum 2.0 grade point average required for admission to upper-level business courses.
2. Students must have the following:
   - A minimum overall average of C in all business courses attempted (including minor courses transferred),
   - A minimum overall average of C in UAB business courses required for the minor, and
   - At least 12 semester hours of the minor courses taken in the UAB School of Business (the accounting minor has additional requirements).
3. All 200-level courses listed must be completed prior to enrollment in the 300- and 400-level courses listed.
4. Students who wish to take upper-level business courses other than those specified below must meet all prerequisites for those courses and have permission of the School of Business Undergraduate Advisors' Office (Room 203, BEC).
5. School of Business majors may also earn a School of 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 undergraduate advisors can assist School of Business majors in tailoring a School of Business Minor.

MINOR REQUIREMENTS FOR BUSINESS ADMINISTRATION

Requirement	Fulfilled By:	Hrs.
Business Administration Lower-Level Requirements	Take the following courses (must have an overall GPA of 2.0 in these courses; this GPA calculates all attempts except subsequent repeats of a course in which a C has already been earned): **AC 200** **EC 210** **LS 246** **BUS 101** *Note: **EC 210** may also apply to Core Curriculum Area IV. Check the Core Curriculum for your particular major.*	11

Business Administration Upper-Level Requirements	Take the following courses: **FN 301 MG 302 MK 303**	9
	Total Minor Requirements:	**20**

Minor in International Business

The international business minor is available only to 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.

MINOR REQUIREMENTS FOR INTERNATIONAL BUSINESS

Requirement	Fulfilled By:	Hrs.
Major Requirement	Must be a School of Business Major	-
International Business Requirements	Take four of the following courses: **IB 407 IB 412 IB 415 IB 416 IB 495**	12
Foreign Language Requirement	Select two courses in a foreign language (preferably with a conversational emphasis).	6
	Total Minor Requirements:	**18**

Course Descriptions
Business (BUS) Lower Level

BUS 101 - Intro to Business - 2 hrs.
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 School of Business.

Course Descriptions
Business (BUS) Upper Level

BUS 300 - Business Honors Research Methods - 3 hrs.
This course will facilitate development of an acceptable Business Honors Thesis/Project Proposal to be submitted to the School of Business Honors Committee. This Proposal will serve as the basis for research to be undertaken for BUS 400. Students will understand the process for completing independent research. Students will be introduced to statistical analytical tools such as t-tests, ANOVA, and correlation analysis. *Prerequisite:* Acceptance into the School of Business Honors Program.

BUS 301 - Business Honors Reading Sem - 1 hrs.
This course will facilitate development of an acceptable Business Honors Thesis/Project Proposal to be submitted to the 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. *Prerequisite:* Acceptance into a UAB Honors Program or permission of instructor. May be repeated with permission of Honors Program Director.

BUS 350 - Business Communications - 3 hrs.
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. *Prerequisites:* C or better in EH 102

BUS 400 - Business Honors Seminar - 3 to 6 hrs.
This course will facilitate completion of an accepted Business Honors Thesis/Project Proposal. Students conduct independent research and present work in progress. *Prerequisite:* Acceptance into the School of Business Honors Program and BUS 300. *Prerequisites:* BUS 300

BUS 450 - Strategic Management Capstone - 3 hrs.
Senior seminar integrating functional business fields of accounting, economics, finance, information systems, management, marketing, production policy and decision making. *Prerequisite:* Must be senior in last term.

International Business (IB)

IB 407 - International Economics - 3 hrs.
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.

IB 412 - International Financial Mgt - 3 hrs.
Financial analysis and decision making in international context. All traditional areas of corporate finance explored. *Prerequisites:* C or better in FN 310

IB 415 - International Business Dynamics - 3 hrs.
Business and managerial problems of international business activity. Emphasis on relating current international information to problems and opportunities for business firms. *Prerequisites:* MG 302

IB 416 - International Marketing - 3 hrs.
International marketing activities such as environmental issues, marketing strategy, and tactical considerations in entering foreign markets. *Prerequisites:* MK 303

IB 495 - Business Study Abroad - 3 hrs.
Academic course of study in a business discipline which takes place in a foreign location. *Prerequisite:* Sophomore standing, UAB GPA minimum 2.7 and permission of UAB School of Business faculty sponsor or Director of Undergraduate Programs.

Department of Accounting and Information Systems

Chair: Frank M. Messina
Faculty: Adkins, Broom, Crigler, T. Edmonds, Friend, Grice, Johnston, McKissock, O. Powers, Rivera, Singh, Singleton, Springer, D. Tanju, M. Tanju, Tsay, Turpen

The department is responsible for activities in accounting, information systems, and legal studies.

Mission Statement

The Department of Accounting and Information Systems 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 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 the undergraduate advising office in the School of Business for specific guidance. Students interested in this option who 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.

REQUIREMENTS FOR ACCOUNTING AND INFORMATION SYSTEMS

Requirement	Fulfilled By:	Hrs.
Upper-Division Requirements	Take the following courses: **FN 310 MG 302 MG 403** **IS 303 MK 303 BUS 350**	18
*Capstone (AC) or *Capstone (IS)	See specific requirements for capstone courses: ***AC 495 or *IS 495**	3
International Business	Select one of the following courses: **IB 407 IB 412 IB 415 IB 416**	3
Economics	Select one of the following courses: **EC 301 EC 310 EC 420**	3
	Total Upper-Division Requirements:	**27**

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.

MAJOR REQUIREMENTS FOR ACCOUNTING

Requirement	Fulfilled By:	Hrs.
Accounting Requirements	Take the following courses: **AC 300** **AC 310** **AC 402** **AC 304** **AC 401** **AC 413**	18
Accounting Electives	Select six hours from 400-level or higher **Accounting (AC)** courses.	6
	Total Major Requirements:	**24**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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.
Optional Concentrations	For **AC majors** (CPA) For **AC** and **IS majors** (Forensic AC and IS Auditing)

Students must have a minimum grade of C in all accounting courses numbered 300 or above. The grade of C is a prerequisite for all accounting courses numbered above 300. In addition, students must have a minimum overall average of C in all major courses attempted. At least 15 hours of the major must be taken at UAB.

MINOR REQUIREMENTS FOR ACCOUNTING

Requirement	Fulfilled By:	Hrs.
Accounting Lower-Level Requirements	Take the following courses (must have an overall GPA of 2.0 in these courses; this GPA calculates all attempts except subsequent repeats of a course in which a C has already been earned): **AC 200** **AC 201** **BUS 101**	8
Accounting Upper-Level Requirements	Take all of the following courses (with a C or better & overall C average): **AC 300** **AC 304** **AC 310** **AC 401**	12
	Total Minor Requirements:	**20**

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.

MAJOR REQUIREMENTS FOR INFORMATION SYSTEMS

Requirement	Fulfilled By:	Hrs.
Information Systems Requirements	Take the following courses: **IS 295** **IS 301** **IS 321** **IS 396**	12
Elective Requirements	Forensics Electives - **LS 471, IS 472, IS473** Information Security Electives - **IS 302,472,477** Applications Development Electives - **IS 304,305,491** Systems Development Electives - **IS 304,422,491**	9

IS Elective	Select three hours from 300-level or higher **Information Systems (IS)** courses	3
	Total Major Requirements:	**24**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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.

Students must have a minimum grade of C in all information systems courses. The grade of C is a prerequisite for all information systems courses. In addition, students must have a minimum overall C average in all major courses attempted. At least 15 hours of the major must be taken at UAB.

MINOR REQUIREMENTS FOR INFORMATION SYSTEMS

Requirement	Fulfilled By:	Hrs.
Information Systems Lower-Level Requirements	Must have an overall 2.0 GPA in these courses; this GPA calculates all attempts except subsequent repeats of a course in which a C has already been earned: **BUS 101 IS 295**	5
Information Systems Upper- Level Requirements	Take the following courses: **IS 301 IS 303 IS 422** **IS 302 IS 321**	15
	Total Minor Requirements:	20

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 of or in addition to the courses required for the major), the following series of courses which make up the concentration:

Requirement	Fulfilled By:	Hrs.
Concentration Requirements	Take all of the following courses: **AC/IS 472 LS 471** **AC/IS 473 AC/IS 474**	10-12
	Total Concentration Requirements:	**10-12**

Course Descriptions

Accounting (AC) Lower Level

AC 200 - Principles of Accounting I - 3 hrs.
Basic concepts with focus on how accounting events affect financial statements. Emphasizes both preparation and use of external financial reports. Accrual versus cash, receivables, payables, inventory, long-term operational assets, long-term liabilities, stockholders' equity, recording procedures, and financial statement analysis. Not open to entering freshmen.

AC 201 - Principles of Accounting II - 3 hrs.
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

Upper Level

AC 300 - Financial Accounting I - 3 hrs.
Accounting cycle, environment of financial accounting, conceptual framework of financial accounting, financial statements, time value of money, cash and receivables. *Prerequisites:* C or better in AC 201 and junior standing; *Prerequisite or Co-requisite:* C or better in AC 304.

AC 304 - Accounting Information Systems - 3 hrs.
Transaction processing cycles of accounting system; internal control, development, and control of information systems; emerging development of information technology. *Prerequisites:* C or better in AC 201 and junior standing.

AC 310 - Financial Accounting II - 3 hrs.
Continuation of AC 300. Inventories, plant assets, intangible assets, current liabilities, long-term debt and stockholders' equity. *Prerequisites:* AC 300 and AC 304

AC 320 - Financial Accounting Survey - 3 hrs.
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

AC 401 - Cost Accounting - 3
Basic theory and procedures involving cost determination, analysis, and control. Cost allocation, application of overhead, budgeting, standard costs, job order, process and by-product costing, spoilage, and quantitative techniques. *Prerequisites:* C or better in AC 320 or AC 304 and AC 300 and junior standing.

AC 402 - Income Taxation I - 3 hrs.
Fundamentals and basic concepts of taxation of various entities, with emphasis on federal income taxation of individuals. *Prerequisites:* C or better in AC 201 and junior standing.

AC 413 - Internal Auditing - 3 hrs.
Theory and practice of internal auditing and application of internal auditing principles and techniques to selected audit problems. *Prerequisites:* AC 300 and AC 304

AC 414 - Gvmtl and Not-For-Prof Acct - 3 hrs.
Budgetary and fund accounting as applied to municipalities, other governmental units, and institutions operating as nonprofit entities. *Prerequisites: C or better in AC 300 and AC 304.*

AC 423 - External Auditing - 3 hrs.
Study of the external audit function and the essential standards that govern audit practice. *Prerequisites:* AC 310 and AC 413

AC 430 - Financial Accounting III - 3 hrs.
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

AC 452 - Income Taxation II - 3 hrs.
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

AC 464 - Accounting Internship - 3 hrs.
Work experience enabling students to better integrate academic knowledge with practical applications by exposure to accounting practice and business environment. Permission of instructor, 2.85 grade point average in AC courses and 2.50 overall grade point average. *Prerequisites:* C or better in AC 300 and AC 304, permission of instructor, 2.85 grade point average in AC courses and 2.50 overall grade point average.

AC 472 - Forensic Acct and IT Auditing - 3 hrs.
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

AC 473 - Fraud Examination - 3 hrs.
Advanced forensic accounting concepts with a primary focus on occupational fraud and abuse--its origins, perpetration, prevention, and detection. *Prerequisites:* AC 304

AC 474 - Forensic Accounting Practicum - 1 to 3 hrs.
Work experience requiring the application of forensic accounting concepts and methods. Permission of instructor and senior standing. *Prerequisites:* AC 472 and AC 473 and LS 471

AC 480 - Advanced Accounting - 3 hrs.
Business combinations, consolidated financial statements, multinational accounting, and partnerships. *Prerequisites:* AC 430

AC 490 - Advanced Topics in Accounting - 3 hrs.
Contemporary professional accounting issues. *Prerequisite:*Permission of instructor.

AC 495 - Accounting Capstone - 3 hrs.
Course brings together in one setting the learned skills and knowledge needed in a professional career in accounting. Permission of the Department Chair. *Prerequisites:* AC 300 and AC 304 and AC 310 and AC 401 and AC 402 and AC 413

AC 499 - Directed Readings - 1 to 3 hrs.
Readings and independent study in selected areas.

Information Systems (IS) Lower Level

IS 103 - Applied Information Technology - 3 hrs.
Use of microcomputers, business applications in office automation, analysis of business problems, and retrieval and presentation of information. *Prerequisites:* C or better in MA 105

IS 295 - Programming Logic - 3 hrs.
Provides an introduction to the technical aspects of programming using common programming logic concepts and object-oriented programming concepts.

Upper Level

IS 301 - Intro to Database Mgt Systems - 3 hrs.
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 295

IS 302 - Telecommunications Management - 3 hrs.
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.

IS 303 - Information Systems - 3 hrs.
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. *Prerequisite:* Junior Standing

IS 304 - Intro to Business Programming - 3 hrs.
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.

IS 305 - Intro Application Development - 3 hrs.
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 295 and IS 301 and IS 304

IS 321 - Systems Analysis - 3 hrs.
Focuses on the planning, decision making tasks and requisite skills necessary for the analysis of information systems.

IS 383 - Current Programming Languages - 3 hrs.
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*: C or better in IS 295.

IS 396 - Intro to Project Management - 3 hrs.
A course addressing the concepts and application of project management techniques and tools. Emphasis is placed on the Project Management Institute's body of knowledge, information technology project management, and preparing the student for the Project Management Professional certification exam.

IS 422 - Adv Systems Analysis/Design - 3 hrs.
Focuses on the planning, decision making, tasks, and requisite skills necessary for the design of information systems. *Prerequisites:* IS 295 and IS 301 and IS 321

IS 464 - IS Internship - 3 hrs.
Work experience enabling students to better integrate academic knowledge with practical applications by exposure to accounting practice and the business environment. *Prerequisite*: 2.75 GPA in IS courses and permission of instructor.

IS 472 - Forensic Acc and IT Auditing - 3 hrs.
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. *Prerequisite*: Junior standing and permission of instructor.

IS 473 - Fraud Examination - 3 hrs.
Advanced forensic accounting concepts with a primary focus on occupational fraud and abuse--its origins, perpetration, prevention, and detection. *Prerequisite*: Junior standing and permission of instructor.

IS 474 - Forensic Accounting Practicum - 1 to 3 hrs.
Work experience requiring the application of forensic accounting concepts and methods. *Prerequisites:* IS 472 and IS 473 and LS 471 and senior standing, and permission of instructor.

IS 477 - Intro to Systems Security - 3 hrs.
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*: C or better in IS 302.

IS 491 - Current Topics in Info Systems - 3 hrs.
A study of selected current developments in information systems emphasizing development and managerial implications. *Prerequisite*: Permission of instructor.

IS 495 - IS Capstone Systems Develop - 3 hrs.
Team systems development project with special emphasis on information management from organizational perspective. *Prerequisites:* IS 295 and IS 301 and IS 321 and IS 396

IS 499 - Directed Readings - 1 to 3 hrs.
Readings and independent study in selected areas.

Legal Studies (LS) Lower Level

LS 246 - Legal Environment of Business - 3 hrs.
Background and survey of current legal system; legal process, contracts, torts, product liability, employment law, securities, anti-trust, and ethics. *Prerequisite:* sophomore standing.

Upper Level

LS 457 - Business Law for Accountants - 3 hrs.
Legal forms of business organization, including partnerships and corporations. Commercial paper, especially negotiable instruments; sales under Uniform Commercial Code; other CPA examination material. *Prerequisite*: C or better in LS 246 and junior standing.

LS 471 - Legal Elemts of Fraud Invest - 3 hrs.
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

Department of Finance, Economics, and Quantitative Methods

Chair: Lary B. Cowart
Faculty: Abrams, Bos, Burns, Culver, DasGupta, Helms, B. Lee, S. Lee, A. Rauterkus, S. Rauterkus, Ryan, Sorochinsky, Stanford, Sutton, Van Matre, Walker

The Department of Finance, Economics and Quantitative Methods supports the mission of the School of Business through the department's majors and course offerings. Majors within the department are designed around a curriculum that indoctrinates the student with discipline-based theory and real-world application provided through our relationships with the business community.

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 achieve a minimum 2.5 in all business courses attempted as well as a grade of C or better in all business core courses and major courses.

UPPER DIVISION BUSINESS REQUIREMENTS FOR FINANCE

Requirement	Fulfilled By:	Hrs.
Upper-Division Requirements	Take the following courses: **QM 350 IS 303 FN 310 BUS 350 MG 302 MK 303**	18
*Capstone **(FNFM) or (I&I)**	*Capstone courses for FN majors must be taken by seniors in their last term. ***FN 496 or *FN 495**	3
International Business	Take the following course: **IB 412**	3
Economics Financial Management or Investments & Institutions	**EC 304 or EC 310** **EC 301**	3
	Total Upper-Division Requirements:	**27**

Finance majors should select **Financial Management** or **Investments and Institutions** as a concentration.

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

Requirement	Fulfilled By:	Hrs.
Finance Requirements	Take the following courses: **AC 320 FN 350 FN 411 FN 453** **FN 311 FN 410 FN 320 AC 401**	24
Finance Major Elective	Select one 300-level or higher **AC**, **EC or FN** course approved by finance advisor. *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.*	3
	Total Major Requirements:	**27**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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.

Investments and Institutions

Students who wish to prepare for careers in financial institutions (such as banks, thrifts, insurance companies, and credit unions), in the securities industry (such as a stockbroker, portfolio manager, financial planner, or securities analyst), or in real estate should choose 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

Requirement	Fulfilled By:	Hrs.
Finance Requirements	Take the following courses: **EC 420 FN 351 AC 320 FN 453 FN 320** **FN 350 FN 410 FN 420 or FN 452**	24
Finance Major Elective	Select one 300-level or higher **EC**, **FN** or **AC** course approved by finance advisor. *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.*	3
	Total Major Requirements:	**27**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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.

MINOR REQUIREMENTS FOR FINANCE

Requirement	Fulfilled By:	Hrs.
Finance Lower-Level Requirements	Take the following courses (must have an overall GPA of 2.0 in these courses; this GPA calculates all attempts except subsequent repeats of a course in which a C has already been earned): **AC 200 EC 210 BUS 101** *Note: **EC 210** may also apply to Core Curriculum Area IV. Check the Core Curriculum for your particular major.*	8
Finance Upper-Level Requirements	Take the following course: **FN 310**	3
Finance Elective	Select three 300-level or higher **Finance (FN)** courses.	9
	Total Minor Requirements:	**20**

Economics Major

The major in economics is designed to provide students with a solid grounding in economic analysis and quantitative 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.

UPPER DIVISION BUSINESS REQUIREMENTS FOR ECONOMICS

Requirement	Fulfilled By:	Hrs.
Upper-Division Requirements	Take the following courses: **FN 310 MG 302 BUS 350 *BUS 450** **IS 303 MG 403 MK 303** **Must be taken as a senior in last term.*	21
International Business	Take the following course: **IB 407**	3
Economics	Take the following course: **EC 310** *Note: Students may **not** apply course to this requirement and a Major Requirement. EACH COURSE USED ONLY ONCE.*	3
	Total Upper-Division Requirements:	**27**

Economics majors should select one of the following concentrations.

This concentration is 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 graduate work or for a variety of careers in industry and government.

MAJOR REQUIREMENTS FOR ECONCOMICS WITH ECONOMIC ANALYSIS & POLICY CONCENTRATION
Students must earn at least a 2.0 GPA in all attempts of courses in the Major Requirements. At least 15 hours of these courses must be taken at UAB

Requirement	Fulfilled By:	Hrs.
Economics Requirements	Take the following courses: **EC 304 EC 305**	6
Economics Major Electives	Select six courses from the following: 300-level or higher **Economics (EC)** courses **FN 412** Maximum of two 400-level **QM** courses *Note: Students may NOT apply any course to this requirement and the Upper-Division Economics Requirement and/or IB requirement, EACH COURSE USED ONLY ONCE.*	18
	Total Major Requirements:	**24**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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.

MINOR REQUIREMENTS FOR ECONOMIC ANALYSIS & POLICY

Requirement	Fulfilled By:	Hrs.
Economics Lower-Level Requirements	Take the following courses (must have an overall GPA of 2.0 in these courses; this GPA calculates all attempts except subsequent repeats of a course in which a C has already been earned): **EC 210 EC 211 QM 214 BUS 101** *Note: **EC 210** and **EC 211** may also apply to Core Curriculum Area IV; check the Core Curriculum for your particular major. Also note that the prerequisite for **QM 214** is **MA 109,** with C.*	11
Economics Upper-Level Requirements	Take the following courses: **EC 304 EC 305**	6
Economics Elective	Select one 300-level or higher **Economics (EC)** course.	3
	Total Minor Requirements:	**20**

Philosophy and Political Economy

The Philosophy and Political Economy concentration focuses on topics in the intersection of philosophy, economics and political science. This concentration trains students to attack a wide range of problems using rigorous analytical techniques. It is an excellent basis for graduate study, whether in philosophy, economics 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 2.0 GPA in all attempts of courses in the Major Requirements. At least 15 hours of these courses must be taken at UAB.

MAJOR REQUIREMENTS FOR ECONOMICS WITH PHILOSOPHY AND POLITICAL ECONOMY CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Philosophy Requirements	Take the following courses: **PHL 120 PHL 230 PHL 470**	9

Philosophy Requirements	Select one of the following courses: **PHL 135** or **PHL 235** or **one 300** or **higher PHL course**	3
Economics Requirements	Take the following courses: **EC 304 EC 305**	6
Philosophy and Political Economy Requirements	Take the following courses: **EC 320 EC 330 EC 450**	9
Economics Major Electives	Select three courses from the following: 300-level or higher **Economics (EC)** courses **FN 412** maximum of two 400-level **QM** courses *Note: Students may NOT apply any course to this requirement and the Upper-Division Economics Requirement and/or IB requirement, EACH COURSE USED ONLY ONCE.*	9
	Total Major Requirements:	**36**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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. **PHL** requirements for this concentration may be used as free electives.

Quantitative Methods

The quantitative methods concentration trains students to use a variety of quantitative techniques to solve real-world problems related to business, economics, and the sciences. This training prepares students for a number of careers in a rapidly growing profession. The concentration also conveys the skills essential to success in virtually any graduate research program.

MAJOR REQUIREMENTS FOR ECONOMICS WITH QUANTITATIVE METHODS CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Quantitative Methods Requirements	Take the following courses: **QM 400 QM 420 QM 425**	9
Statistics/Sampling	Select one of the following courses: **QM 410 QM 416**	3
Quantitative Methods Major Electives	Select three courses from the following (other courses may be approved by Quantitative Methods advisor): **AC 401 EC 409 QM 410* QM 430 QM 490** **MK 408 QM 416* QM 442 SOC 370** *Note: Students may NOT apply any course to this requirement and the Upper-Division Economics Requirement. *Select course not taken as Statistics/Sampling requirement above.*	9
	Total Major Requirements:	**21**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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.

MINOR REQUIREMENTS FOR ECONOMICS - QUANTITATIVE METHODS

Requirement	Fulfilled By:	Hrs.
Economics Lower-Level Requirements	Take the following courses (must have an overall GPA of 2.0 in these courses; this GPA calculates all attempts except subsequent repeats of a course in which a C has already been earned): **EC 210 EC 211 QM 214 QM 215 BUS 101** *Note: **EC 210** and **EC 211** may also apply to Core Curriculum Area IV; check the Core Curriculum for your particular major. Also note that the prerequisite for **QM 214** is **MA 109**, with C.*	14
Economics Upper-Level Requirements	Select two of the following courses: **QM 400 QM 410 QM 420 QM 425 QM 442**	6
	Total Minor Requirements:	**20**

Course Descriptions
Finance (FN) Lower Level

FN 101 - Personal Finance - 3
Selected aspects of finance encountered by an individual during his or her lifetime. Lower-level elective credit only.

Upper Level

FN 301 - Survey of Finance/Non-Bus Maj - 3
A survey course of financial management principles emphasizing time value of money, relationship between risk and return, security valuation, and capital budgeting. Intended for users of financial information. *Prerequisites:* AC 200 and EC 210

FN 310 - Fund of Financial Management - 3
Basic principles of financial management emphasizing time value of money, stock and bond valuation, and capital budgeting; risk/return analysis, cost of capital, capital structure, and cash flow analysis. *Prerequisites:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

FN 311 - Short-Term Financial Mgt - 3
Multidisciplinary approach to analysis of financial statements and working capital management. Financial planning, corporate liquidity, and short-term financial policy issues. *Prerequisites:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

FN 320 - Financial Research Methods - 3
Introduction to commercial and publicly available financial research databases and the basics of data analysis. *Prerequisites:* EC 301 and FN 310 and IS 103.

FN 340 - Principles of Insurance - 3
Insurance from purchaser's point of view. Risk-insuring devices and insurance industry. *Prerequisites:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

FN 350 - Equity Portfolio Management - 3
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

FN 351 - Bond Portfolio Management - 3
Fixed income markets and instruments, including valuation and portfolio strategies. Derivatives of fixed income securities. *Prerequisites:* FN 310.

FN 370 - Principles of Real Estate - 3
Upper division course designed to provide the student with a solid foundation for making real estate decisions. Course involves computer-based assignments. *Prerequisites:* C or better in FN 310

FN 410 - Advanced Financial Management - 3
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:* C or better in FN 310

FN 411 - Case Studies in Financial Mgt - 3
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

FN 412 - International Financial Mgt - 3
Financial analysis and decision making in international context. All traditional areas of corporate finance explored. *Prerequisites:* C or better in FN 310

FN 420 - Financial Sales & Trading - 3
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 and FN 350 and FN 351

FN 452 - Mgt Financial Intermediaries - 3
Roles, activities, and functions of financial institutions and their interrelationships. *Prerequisites:* C or better in EC 301 and FN 310.

FN 453 - Financial Risk Management - 3
Domestic and international risk management issues. Tools to measure and manage interest rate; exchange rate and commodity price risks. *Prerequisites:* C or better in FN 350, FN 410, FN 412, and IB 412

FN 460 - Finance Internship - 3
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. *Prerequisites:* C or better in FN 310, 3.0 Finance G.P.A., and permission of instructor.

FN 470 - Real Estate Finance - 3
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

FN 475 - Real Estate Investments - 3
A study of investment analysis for real estate decisions, including taxation, risk, financial leverage, land use, and market analysis will be covered in depth. *Prerequisite:* C or better in FN 310 and FN 370

FN 490 - Advanced Topics in Finance - 3
Issues and problems in selected areas of finance.

FN 495 - Invest & Institutions Capstone - 3
This course consists of selected case studies to be presented in class by student teams. The objective is to encourage the students to develop the ability to identify problems, apply the tools of finance, evaluate alternatives and arrive at viable solutions to the problems in each case. *Prerequisites:* FN 310 and FN 320 and FN 350 and FN 351 and AC 320 and (IB 412 or FN 412) and (EC 420 or QM 420)

FN 496 - Financial Management Capstone - 3
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 and FN 453 and FN 411 and FN 311 and FN 320 and FN 350 and AC 320 and FN 410 and (FN 412 or IB 412)

FN 499 - Directed Readings in Finance - 1 to 3
Supervised study of specific areas of finance.

Economics (EC) Lower Level

EC 110 - Economics and Society - 3
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 School of Social and Behavioral Sciences.

EC 210 - Principles of Microeconomics - 3
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
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 AREAIV).

Upper Level

EC 301 - Money and Banking - 3
Money supply, banking system, and other financial institutions; how money affects aggregate economic activity. *Prerequisites:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

EC 303 - Labor Economics - 3
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:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

EC 304 - Microeconomics - 3
Advanced economic principles underlying value and distribution with additional training in application of these principles to problems of analysis. *Prerequisites:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

EC 305 - Macroeconomics - 3
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:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

EC 308 - Economics of Environment - 3
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.

EC 310 - Managerial Economics - 3
Economic theory and its application to managerial decision making process. Demand analysis, estimation, cost analysis, market analysis, pricing strategy. *Prerequisites:* EC 210 and EC 211 and QM 214

EC 320 - Behavorial Economics - 3
Incorporation of psychology into models of economic behavior. These models are applied to a variety of fields including industrial organization, marketing, and negotiation. *Prerequisite:* EC 210

EC 330 - Cooperation and Competition - 3
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. *Prerequisites:* EC 210

EC 401 - Mathcl Approach Econ/Business - 3
Mathematical approach in economics and business. *Prerequisite:* EC 304

EC 403 - Monetary Economics - 3
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 and (EC 301 or EC 305)

EC 404 - Topics in Public Policy - 3
Topics in Public Policy. *Prerequisites: EC 304*

EC 405 - Econ Development and Growth - 3
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*

EC 407 - International Economics - 3
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. *Prerequisites:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

EC 408 - Topics Hist of Econ Theory - 3
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 210 and EC 211*

EC 409 - Survey of Econometrics - 3
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 or EC 305*

EC 411 - Public Finance - 3
Principles of taxation, government expenditures, borrowing, and fiscal administration. *Prerequisites:* EC *304*

EC 413 - Urban Economics - 3
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:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

EC 414 - Industrial Organization - 3
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*

EC 420 - Applied Forecasting - 3
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:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

EC 425 - Applied Regression Analysis - 3
Simple, multi-linear, and polynomial regression analysis. Model selection, inferential procedures, and application with computer. *Prerequisites:* AC 200 and AC 201 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215

EC 440 - Economics for Educators - 3
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
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 institutions at the macro level (e.g., the Federal Reserve, the IMF, the World Bank) and regulated structures at the micro level (households and firms). The presumed conceptual frameworks will be based on intermediate microeconomics and introductory macroeconomics. Normative justification of institutional designs will be addressed. *Prerequisites: EC 211 and EC 304*

EC 460 - Economics Internship - 3
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 210, EC 211, EC 304 and 305, 3.0 Economics GPA and permission of instructor.*

EC 490 - Advanced Topics in Economics - 3
Selected topics in economics.

EC 491 - Co-op Educational Work Program - 3 to 6

Quantitative Methods (QM) Lower Level

QM 214 - Quantitative Analysis I - 3
Basic statistical concepts applied to business problems. Descriptive statistics, index numbers, basic probability, Binomial, normal, Poisson, sampling, statistical inference, distributions, and estimation. *Prerequisites: IS 103 and MA 109*

QM 215 - Quantitative Analysis II - 3
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*

Upper Level

QM 350 - Quant Methods for Finance - 3
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 and QM 214 and QM 215*

QM 400 - Survey of Management Science - 3
Application of mathematical and statistical techniques to management problems. Network planning techniques, linear programming, inventory systems, queuing theory, simulation, and decision analysis. *Prerequisites: Completion of all pre-business requirements.*

QM 410 - Nonparametric Statistics - 3
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. *Prerequisites: EC 211 and QM 215*

QM 416 - Sampling Techniques - 3
Sampling procedures and application to estimation problems in business. Simple random, stratified, and cluster sampling review

QM - 420 - Applied Forecasting - 3
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:* Completion of all pre-business requirements.

QM 425 - Applied Regression Analysis - 3
Simple, multilinear, and polynomial regression analysis. Model selection, inferential procedures, and application with computer.

QM 442 - Stats Quality/Productivity - 3
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*

QM 490 - Adv Topics Stats/Mgt Science - 3
Statistics/management science application to problems in business and economics.

QM 499 - Dir Rd Quant Mthds - 1 to 3
Readings and independent study in selected areas.
wed and applied to simple and ratio estimators. *Prerequisites: EC 211 and QM 215*

Department of Management and Organization

Chair: George M. Munchus, III
Faculty: Cox, Edmondson, Holmes, Jack, Key, Musa, Oliver, Wech

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. The management major should select one of the following concentrations.

General Management

The general management concentration 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, planning and control, and quality.

UPPER DIVISION BUSINESS REQUIREMENTS FOR MANAGEMENT

Requirement	Fulfilled By:	Hrs.
Upper-Division Requirements	Take following courses: **FN 310 MG 302 BUS 350 *BUS 450** **IS 303 MG 403 MK 303** *Must be taken as senior in last term.	21
International Business	Select one of the following courses: **IB 407 IB 412 IB 415 IB 416**	3
Economics	Take one 300-level or higher **Economics (EC)** course. *Note: Students may NOT apply IB/EC 407 to this requirement and the IB requirement. COURSE USED ONLY ONCE.*	3
	Total Upper-Division Requirements:	**27**

MAJOR REQUIREMENTS FOR MANAGEMENT _ GENERAL MANAGEMENT CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Required Management Courses	Take the following courses: **MG 358 MG 401 MG 409**	9
Human Resources	Take the following courses: **MG 410 MG 413**	6
Production and Quality	Take the following courses: **MG 416 MG 417**	6
Management Elective	Select one 400-level **Management (MG)** course approved by the department. *Note: Students may NOT apply MG/IB 415 to this requirement and the IB requirement. COURSE USED ONLY ONCE*	3
	Total Major Requirements:	**24**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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.

Human Resource Management

The human resource management concentration is designed for students who wish to pursue a career in human resources, to develop a knowledge of employee relations for continuing career development, or to gain skills in the increasingly important are of the overall management task.

MAJOR REQUIREMENTS FOR MANAGEMENT - HUMAN RESOURCE MANAGMENT CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Required Management Courses	Take the following courses: **MG 358 MG 401 MG 409**	9
Human Resources	Take the following courses: **MG 410 MG 411 MG 412 MG 413**	12
Management Elective	Select one 400-level **Management (MG)** course approved by the department. *Note: Students may NOT apply MG/IB 415 to this requirement and the IB requirement. COURSE USED ONLY ONCE*	3
	Total Major Requirements:	**24**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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.

MINOR REQUIREMENTS FOR MANAGEMENT

Requirement	Fulfilled By:	Hrs.
Management Lower-Level Requirements	Take the following courses (must have an overall GPA of 2.0 in these courses; this GPA calculates all attempts except subsequent repeats of a course in which a C has already been earned): **AC 200 EC 210 LS 246 BUS 101** *Note: **EC 210** may also apply to Core Curriculum Area IV. Check the Core Curriculum for your particular major.*	11
Management Upper-Level Requirements	Take the following courses: **MG 302 MG 403 MG 409**	9
	Total Minor Requirements:	**20**

Course Descriptions
Management (MG) Upper Level

MG 302 - Mgt Processes and Behavior - 3
Planning and decision making; organization of process and design concepts; leadership and communication within organizations; motivation, job attitudes, and performance evaluation; process of control. *Prerequisites: AC 200 and AC 201 and BUS 101 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215*

MG 358 - Business and Society - 3
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.

MG 401 - Organizational Behavior - 3
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*

MG 403 - Operations Management - 3
Operations management as related to manufacturing and non-manufacturing enterprises. Forecasting, inventory theory, scheduling, production control, facility layout, job design, and supporting functions. *Prerequisites: MG 302*

MG 409 - Human Resources Management - 3
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*

MG 410 - Labor-Management Relations - 3
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*

MG 411 - Compensation Administration - 3
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. *Prerequisite: MG 409.*

MG 412 - Employee Select/Development - 3
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*

MG 413 - Employment Law - 3
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. *Prerequisites: MG 409*

MG 415 - International Bus Dynamics - 3
Business and managerial problems of international business activity. Emphasis on relating current international information to problems and opportunities for business firms. *Prerequisites: MG 302*

MG 416 - Supply Chain Management - 3
Course takes operational view of the mechanism for matching supply and demand through the management of material and information flow. This framework is used to understand strategic, design and operational issues in supply management. *Prerequisites: MG 403*

MG 417 - Project Management - 3
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: MG 403*

MG 418 - Quality Management - 3
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*

MG 421 - Entrepreneurship - 3
Analytical and critical examination of functions and environments where new organizational development takes place. Role of entrepreneurship in creation and development of new economic entities. *Prerequisites: MG 302*

MG 422 - Mgt Planning and Control - 3
Relationship among long-, intermediate-, and short-range plans emphasizing managerial decision making. Acquisition, allocation of resources, and methods for evaluating proper utilization. *Prerequisites: MG 302*

MG 440 - Small Business Consulting/Res - 3
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, MG 302, and MK 303*

MG 442 - Stats Quality/Productivity - 3
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. *Prerequisite or Co-requisite: MG 403*

MG 445 - Management Internship - 3
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: MG 302*

MG 490 - Management Seminar - 1 to 3
Selected management topics. *Prerequisites: MG 302*

MG 492 - Curr Topics Production/Ops Mgt - 3
Selected topics in production and operations management. *Prerequisites: MG 403*

MG 493 - Curr Topics Human Resource Mgt - 3
Current development and issues in human resource management. *Prerequisites: MG 409*

MG 499 - Directed Readings in Mgt - 1 to 3
Specific areas in management.

Department of Marketing and Industrial Distribution

Chair: Robert A. Robicheaux
Faculty: Ayers, DeCarlo, Gee, Kennedy, Martin, Miller, Pang, T. Powers, Skinner

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. The areas covered include retailing, consumer selling, industrial selling, marketing management, marketing research, promotion, and advertising. The major is an excellent foundation for graduate work in marketing or for the M.B.A. degree. The student may concentrate in an area of marketing through elective courses offered by the MKID department.

UPPER DIVISION BUSINESS REQUIREMENTS FOR MARKETING

Requirement	Fulfilled By:	Hrs.
Upper-Division Requirements	Take following courses: **FN 310 MG 302 BUS 350 *MK 450** **IS 303 MG 403 MK 303** **To attempt MK 450, must have completed BUS 350, FN 310, MK 303, MK 312, MK 320, MK 408, MK 410 and MK 421 and co-requisite with MK 330.*	21
International Business	Select one of the following courses: **IB 407 IB 412 IB 415 IB 416**	3
Economics	Select one of the following courses: **EC 301 EC 320 EC 330 EC 420**.	3
	Total Upper-Division Requirements:	**27**

Students must earn at least a 2.0 GPA in all attempts of courses in the Major Requirements. At least 15 hours of these courses must be taken at UAB.

Requirement	Fulfilled By:	Hrs.
Required Marketing Courses	Take the following courses: **MK 312 MK 320 MK 330 MK 410 MK 421** **MK 408**	18
Marketing Electives	Select two courses from 300-level or higher **Marketing (MK)** courses. *Note: Students may NOT apply MK/IB 416 to this requirement and the IB requirement. COURSE USED ONLY ONCE.*	6
	Total Major Requirements:	**24**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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.

MINOR REQUIREMENTS FOR MARKETING

Requirement	Fulfilled By:	Hrs.
Marketing Lower-Level Requirements	Take the following courses (must have an overall GPA of 2.0 in these courses; this GPA calculates all attempts except subsequent repeats of a course in which a C has already **AC 200 EC 210 LS 246 BUS 101** *Note: **EC 210** may also apply to Core Curriculum Area IV. Check the Core Curriculum*	11
Marketing Upper-Level Requirements	Take the following course: **MK 303**	3
Marketing Electives	Select two 300-level or higher **Marketing (MK)** courses.	6
	Total Minor Requirements:	**20**

Industrial Distribution Major

A business-engineering program, this major focuses on the total industrial distribution (ID) business. Technical and engineering education, along with a solid foundation in the arts and sciences, complement the broad business core. Majors complete five engineering courses specifically tailored for ID students and four ID management courses, which includes an internship/practicum with a host distributor or manufacturing firm.

Industrial distribution graduates are prepared for entry-level positions leading to careers with distributors in technical and industrial sales, sales management, materials and warehouse management, operations, purchasing, inventory management, and branch management. Careers with manufacturers include sales and marketing, procurement, and account representative positions.

UPPER DIVISION BUSINESS REQUIREMENTS FOR INDUSTRIAL DISTRIBUTION AND MEDICAL EQUIPMENT AND SUPPLIES DISTRIBUTION

Requirement	Fulfilled By:	Hrs.
Upper-Division Requirements	Take following courses: **FN 310 MG 302 BUS 350 *MK 435** **IS 303 MG 403 MK 303** *See specific requirements for capstone course	21
International Business	Select one of the following courses: **IB 407 IB 412 IB 415 IB 416**	3
Economics	Select one of the following courses: **EC 301 EC 320 EC 330 EC 420**	3
	Total Upper-Division Requirements:	**27**

MAJOR REQUIREMENTS FOR INDUSTRIAL DISTRIBUTION

Students must earn at least a 2.0 GPA in all attempts of courses in the Major Requirements. At least 15 hours of these courses must be taken at UAB.

Requirement	Fulfilled By:	Hrs.
Lower Level Engineering	Take the following course: **ME 101**	1
Advanced Engineering	Take the following courses: **EE 305 ME 301 ME 302 MSE 350**	10
Required Marketing Courses	Take the following courses: **MK 408 MK 330 MK 430 MK 495** **MK 320**	14
	Total Major Requirements:	**25**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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.

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, & SALES*

Requirement	Fulfilled By:	Hrs.
Industrial Distribution Electives	Choose from these approved electives **MK 312** **MK 421** **MK 410** **MK 450** **Completion of this sequence constitutes a double major in Industrial Distribution and Marketing.*	**12**
	Total Elective Requirements:	**12**

Medical Equipment and Supplies Distribution Concentration

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.

MAJOR REQUIREMENTS FOR INDUSTRIAL DISTRIBUTION WITH MEDICAL EQUIPMENT AND SUPPLIES DISTRIBUTION CONCCENTRATION

Requirement	Fulfilled By:	Hrs.
Lower Level Biology Elective	Take the following course: **BY 115**	4
Allied Health Requirements	Take the following courses: **AHS 330** **AHS 350**	6
Allied Health Requirements	Select one of the following courses: **AHS 416** **AHS 435**	3
Required Marketing Courses	Take the following courses: **MK 408** **MK 330** **MK 430** **MK 495** **MK 320**	14
	Total Major Requirements:	**27**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
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.
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. **BY 115** may be used for these elective hours.

E-Commerce Engineering Concentration

An Industrial Distribution E-Commerce Engineering concentration can be selected which will enhance the level of engineering training for industrial distribution majors. A unique combination of engineering and business, this curriculum is designed to provide students with greater skills in electronic commerce and information areas for distribution. The concentration is composed of courses from the business core, as well as the engineering core, along with selected courses that range from technical software to information handling to industrial distribution management.

Note: For core curriculum/pre-business courses (60 semester hours), EE 130 Engineering Computations must be completed rather than IS 103.

COURSES REQUIRED FOR INDUSTRIAL DISTRIBUTION (E-COMMERCE ENGINEERING TRACK)

Requirement	Fulfilled By:	Hrs.
Junior/Senior Business Courses:	Take the following courses: **FN 310 MG 302 MK 303**	9
Marketing Courses	Take the following courses: **MK 320 MK 330 MK 408** **MK 430 MK 435 MK 495**	10
Engineering Courses	**ME 301 ME 302 MSE 350**	8
Additional Engineering Courses	**ME 250 CE 212 EE 210** **CE/ME395 EE 233 EE 332** **EE 447 EE 485 EGR 499**	25
	Total Requirements:	**59**

Marketing (MK)

MK 101 - Intro to Consumer Marketing - 3
Survey course designed to provide understanding of business marketing practices and consumer decision making processes.

MK 303 - Basic Marketing - 3
Survey course of the modern business processes for planning, distributing, promoting and pricing of products (goods and services) for domestic and international organizations. *Prerequisites: AC 200 and AC 201 and BUS 101 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215*

MK 312 - Retail Marketing - 3
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*

MK 313 - Business to Business Marketing - 3
Role of supply chain management and industrial marketing. Planning, organizing, implementing and controlling channels of distribution. *Prerequisites: MK 303*

MK 314 - Consumer Behavior - 3
Determinants of consumer behavior, cultural, social, family, economic and business environments within which consumer purchase decisions are made. *Prerequisites: MK 303*

MK 320 - Industrial Distribution Mgt - 3
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 and AC 201 and BUS 101 and EC 210 and EC 211 and IS 103 and LS 246 and QM 214 and QM 215*

MK 330 - Professional Selling - 3
Integration of interpersonal communication skills and marketing concepts. Identifying prospects' needs, establishing communication, generating interest, creating awareness of benefits, describing total benefit package and using follow-up techniques. Role playing used. *Prerequisites: MK 303*

MK 408 - Marketing Research - 3
Research techniques in marketing with application of research findings to decision making and formulation of marketing strategies. *Prerequisites: MK 303*

MK 410 - Integrated Marketing Comm - 3
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*

MK 416 - International Marketing - 3
International marketing activities, including environmental issues, marketing strategy and tactical considerations in entering foreign markets. *Prerequisites:* MK 303

MK 418 - Intro to E-Commerce - 3
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. *Prerequisites: MK 303*

MK 419 - Services Marketing - 3
Understanding service customers, customer satisfaction, motivating service employees, improving service quality and role of services in strategy planning. *Prerequisites: MK 303*

MK 420 - Sales Management - 3
Management of personal sales force including recruiting, selecting, training, compensating, and evaluating sales personnel; planning, implementing, and controlling selling strategies. *Prerequisite:* MK 303.

MK 421 - Entrepreneurship/Mkting Plan - 3
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: MG 302 and MK 303*

MK 425 - Advanced Professional Selling - 3
Course extends the knowledge and skills needed in a professional career in selling. *Prerequisites*: MK 303, MK 320 (or equivalent for other majors), MK 330, MK 420, BUS 350 and admittance into the Professional Sales Certificate program.

MK 430 - Industrial Distrib Operations - 3
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*

MK 435 - Indust Distrib Policy/Quality - 3
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. *Prerequisites: MK 430*

MK 440 - Small Business Consulting/Res - 3
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 and MG 302 and MK 303*

MK 445 - Marketing Internship - 3
Offers qualified undergraduate students the chance to gain first-hand experience in a local business while receiving academic credit. Must be a marketing major, at least junior standing, B or better in MK 303 and GPA of 2.5 overall. Sponsoring business may require additional courses. *Prerequisites: MK 303*

MK 450 - Strategic Marketing - 3
Problems of marketing management with emphasis on planning, implementing, and controlling marketing activities with individual firms. *Prerequisites: BUS 350 and FN 310 and MK 303 and MK 312 and MK 320 and MK 408 and MK 410 and MK 421. Co-requisite: MK 330*

MK 490 - Special Topics in Marketing - 3
Selected marketing topics not covered in other marketing courses. *Prerequisites: MK 303*

MK 495 - Indust Distrib Dir Study/Prac - 2
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.

MK 499 - Directed Readings in Marketing - 1 to 3
Specific areas in marketing.

School of Education

Dean: Michael Froning
Associate Dean: Mona Eason
Associate Dean: Scott Snyder

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 programs lead to Bachelor of Science degrees in early childhood & elementary education, health education, high school education, physical education, and special education. 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.

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
Art (P-12)	Art *	Curriculum & Instruction
Biology (6-12)	High school education and biology (double major)	Curriculum & Instruction
Chemistry (6-12)	High school education and chemistry (double major)	Curriculum & Instruction
Collaborative Teacher (K-6)	Special Education	Leadership, Special Education, and Foundations
Early Childhood (P-3) and Elementary Education (K-6)	Early childhood and elementary education (double major)	Curriculum & Instruction
English Language Arts (6-12)	High school education and English (double major)	Curriculum & Instruction
French (6-12)	High school education and French (double major)	Curriculum & Instruction
General Science (6-12)	High school education and biology (double major)	Curriculum & Instruction
General Social Science (6-12)	High school education and history (double major)	Curriculum & Instruction
Health Education (6-12)	Health education	Human Studies
Mathematics (4-8)	Mathematics *	Curriculum & Instruction
Mathematics (6-12)	High school education and mathematics (double major)	Curriculum & Instruction
Music – Instrumental (P-12)	Music *	Curriculum & Instruction
Music – Vocal/Choral (P-12)	Music *	Curriculum & Instruction
Physical Education (P-12)	Physical education	Human Studies
Physics (6-12)	High school education and physics (double major)	Curriculum & Instruction
Spanish (P-12)	High school education and Spanish (double major)	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

In addition to teacher certification programs, the School of Education also offers programs that prepare graduates for employment in agencies, health care, and fitness facilities. These non-teaching majors are available in health education and physical education.

Program Area / Concentration	Undergraduate Major	Department
Community Health	Health Education	Human Studies
Exercise Science	Physical Education	Human Studies
Fitness Leadership	Physical Education	Human Studies

School of Education Minors

The School of Education offers the following minors:

Minor	Program	Department
Athletic Coaching	Physical Education	Human Studies
Exercise Science	Physical Education	Human Studies
Health Education	Health Education	Human Studies
Secondary Education	Secondary Education	Curriculum & Instruction

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 Room 222, Education Building.

Office of Student Services

The Office of Student Services in Room 100, Education Building, provides academic advising to students prior to their admission to a Teacher Education Program (TEP) and to students in non-teaching majors prior to their completion of Core Curriculum requirements. 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 are available from this office.

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. Students should see their advisor on a regular basis.

Honors in Education

The School of Education Honors Program provides an opportunity for more in-depth exploration of topics and readings. Students complete a senior thesis or service project working closely with a faculty mentor and take courses in the company of students who are intellectually curious and motivated. More information and an application can be found at http://www.ed.uab.edu/honorsprogram/index.htm. Contact an academic advisor in the School of Education for more specific information.

English Language and Culture Institute (ELCI)

The English Language and Culture Institute (ELCI) is UAB's English language training resource for international undergraduate students, international post-doctoral researchers, and non-native English speaking employees. ELCI 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 elci@uab.edu, or visit www.uab.edu/elci.

Course Descriptions
English Language and Culture (ELC)

ELC 092 - Academic Writing for Non-Native English Speakers I - 3
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
Continuation 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

ELC 101 - Academic Writing for Non-Native English Speakers I - 3
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
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

ELC 203 - Academic Speaking/Listening for Non-Native English Speakers I - 3
Development and practice of speaking and listening skills necessary for success in the university environment. Effective strategies for participating in classroom discussions and listening to and understanding lectures. Knowledge of formal and informal vocabulary; introduction to pronunciation and opportunities for oral fluency practice. This course may not be used as a prerequisite for EH 101.

ELC 204 - Academic Speaking/Listening for Non-Native English Speakers II - 3
Continuation of ELC 203. Speaking and listening skills necessary for success in the university environment. All aspects of oral presentation skills and listening to and understanding academic lectures. Advanced pronunciation, vocabulary building techniques, and conversational fluency practice. May not be used as a prerequisite for EH 101. *Prerequisites:* ELC 203

Teacher Education Program (TEP)

As required by state law, students must be admitted to the School of Education's Teacher Education Program (TEP) in order to enroll for certain courses required for Alabama Class B (bachelor's level) teacher certification. Admission to this program is not automatic. Students must apply for admission to the Teacher Education Program early in the term during which they are completing prerequisites to the Teacher Education Program. Details concerning admission, retention, and completion of TEP are outlined below.

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.
    - EDU 200 Education as a Profession
    - HPE 200 Quality of Life
    - EDF 362 Foundations of Education I: Social, Historical, and Philosophical
    - EPR 363 Foundations of Education II: Psychological
    - ECY 300 Survey of Special Education
    - EDT 300 Teaching and Technology
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 all four criteria):
    - Passing score on objective writing examination in EDU 200
    - Passing score on formal writing evaluation in EDF 362
    - Passing score on spontaneous writing sample in EDU 200 or at TEP interview
    - 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 all three criteria):
    - Passing score on formal speaking sample in ECY 300
    - Passing score on spontaneous speaking sample at TEP interview
    - Grade of "C" or better in CM 101
7. Negative chest x-ray or tuberculosis skin test
8. Current first aid and CPR (infant, child, adult) certification
9. Score of "pass" on pre-TEP portfolio as reviewed by faculty
10. Score of "pass" on TEP interview as reviewed by faculty
11. Score of "pass" on all three parts of the Basic Skills Assessments of the Alabama Prospective Teacher Testing Program (APTTP)
12. Evidence of the dispositions needed to be a successful teacher
13. Criminal history background check status shown as "cleared" on Alabama Department of Education database.
14. Additional requirements by program area:
    - Collaborative Teacher:
        - ◊ ECT 303 Seminar in Special Education ("C" or better)
    - Early Childhood/Elementary Education:
        - ◊ EEC 300 Child Development and Family Relationships ("C" or better)
        - ◊ EEC 301 Introduction to P-6 Education ("C" or better)
        - ◊ Minimum 2.50 GPA in EDU 200, HPE 200, EDF 362, EPR 363, ECY 300, EDT 300, EEC 300, and EEC 301.
        - ◊ Successful completion of two AGSC math courses
    - Physical Education:
        - ◊ Grade of "C" or better in all math, science, and major courses
        - ◊ Statement of eligibility from faculty advisor
        - ◊ Successful completion of the following courses:
            1. All activity courses (100 level)
            2. Officiating course
            3. PE 300 Organization and Administration of Physical Education
            4. PE 305 Motor Development
            5. BY 115 Human Anatomy
            6. BY 116 Human Physiology
    - Secondary Education:
        - ◊ Successful completion of at least 18 semester hours of required teaching field content courses with at least six semester hours completed at UAB
        - ◊ Minimum 2.50 GPA in teaching field courses
        - ◊ Grade of "C" or better in all teaching field courses

Applications for admission to the Teacher Education Program and corresponding submission deadlines are available in the Office of Student Services (Room 100, Education Building). Students will be notified of their admission status by their department prior to the beginning of the term for which they have applied.

Once admitted to TEP students are assigned a faculty advisor.

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 admission, retention, and completion requirements, as outlined in the catalog under which they are officially readmitted.

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 in the January preceding the academic year in which they wish to student teach. Applications are available in the Office of Student Services, Room 100, Education Building. For additional information, contact the Office of Clinical Experiences, Room 222, Education Building.

To be eligible for this internship, students must have an approved student teaching application based on the following:

Collaborative Teacher (Special Education):

1. Formal admission to the Teacher Education Program;
2. Report on file of negative chest x-ray or tuberculosis skin test taken within the last three years;
3. Student teaching application approved by the faculty of the Department of Leadership, Foundations, and Special Education;
4. Minimum higher education GPA of 2.50;
5. Minimum GPA of 2.50 in core curriculum courses;
6. Minimum GPA of 2.50 in teaching field courses;
7. Minimum GPA of 2.50 in professional courses;
8. Completion of all methods courses with a grade of "C" or better;
9. Passing score on a comprehensive assessment documenting mastery of the curriculum of professional studies and the teaching field;
10. Passing score on the Basic Skills Assessments of the Alabama Prospective Teacher Testing Program (APTTP);
11. Passing score on the appropriate Praxis II Subject Assessment;
12. Demonstration of the dispositions needed to be successful as a teacher of students with special needs;
13. Documentation of requisite contact hours in schools; and
14. Criminal history background check status shown as "cleared" on Alabama Department of Education database.

Early Childhood/Elementary Education:

1. Formal admission to the Teacher Education Program;
2. Report on file of negative chest x-ray or tuberculosis skin test taken within the last three years;
3. Student teaching application approved by the faculty of the Department of Curriculum and Instruction;
4. Minimum higher education GPA of 2.50;
5. Minimum GPA of 2.50 in core curriculum courses;
6. Minimum GPA of 2.50 in teaching field courses;
7. Minimum GPA of 2.50 in professional courses;
8. Completion of all methods courses (EDR 440, EDR 443, EEC 405, EEC 406, EEC 412, EEC 413, EEC 414, EEC 415, and EPR 410) with a grade of "C" or better;
9. Passing score on a comprehensive assessment documenting mastery of the curriculum of professional studies and the teaching field;
10. Passing score on the Basic Skills Assessments of the Alabama Prospective Teacher Testing Program (APTTP);
11. Passing score on the appropriate Praxis II Subject Assessment;
12. Demonstration of the dispositions needed to be successful as a teacher of young children;
13. Documentation of requisite contact hours in schools; and
14. Criminal history background check status shown as "cleared" on Alabama Department of Education database.

Students approved to student teach in Early Childhood/Elementary Education must enroll in both EEC 490, Internship in P-3/3-6, and EEC 491, Internship Seminar in P-6 Education, concurrently. Students cannot take additional coursework besides these two courses during the term in which they student teach.

Health Education:

1. Formal admission to the Teacher Education Program;
2. Satisfactory completion of Teacher Education Program requirements, including completion of all coursework;
3. Report on file of negative chest x-ray or tuberculosis skin test taken within the last three years;
4. Permission of health education advisor;

5. Permission of department chair;
6. Departmental interview;
7. Passing score on a comprehensive assessment documenting mastery of the curriculum of professional studies and the teaching field;
8. Passing score on the Basic Skills Assessments of the Alabama Prospective Teacher Testing Program (APTTP);
9. Passing score on the appropriate Praxis II Subject Assessment;
10. Demonstration of the dispositions needed to be successful as a teacher;
11. Documentation of requisite contact hours in schools; and
12. Criminal history background check status shown as "cleared" on Alabama Department of Education database.

Physical Education:

1. Formal admission to the Teacher Education Program;
2. Report on file of negative chest x-ray or tuberculosis skin test taken within the last three years;
3. Student teaching application approved by the faculty of the Physical Education Program;
4. Minimum higher education GPA of 2.50;
5. Minimum GPA of 2.50 in core curriculum courses;
6. Minimum GPA of 2.50 in teaching field courses;
7. Minimum GPA of 2.50 in professional courses;
8. Completion of all teaching field courses (PE 307, 308, 311, 320, 400, 402, 409, and 489) with a grade of C or better;
9. Passing score on a comprehensive assessment documenting mastery of the curriculum of professional studies and the teaching field;
10. Passing score on the Basic Skills Assessments of the Alabama Prospective Teacher Testing Program (APTTP);
11. Passing score on the appropriate Praxis II Subject Assessment;
12. Demonstration of the dispositions needed to be successful as a teacher;
13. Documentation of requisite contact hours in schools; and
14. Criminal history background check status shown as "cleared" on Alabama Department of Education database.

Secondary Education:

1. Formal admission to the Teacher Education Program;
2. Report on file of negative chest x-ray or tuberculosis skin test taken within the last three years;
3. Student teaching application approved by the faculty of the Department of Curriculum and Instruction;
4. Minimum higher education GPA of 2.50;
5. Minimum GPA of 2.50 in core curriculum courses;
6. Minimum GPA of 2.50 in teaching field courses;
7. Minimum GPA of 2.50 in professional courses;
8. Completion of all coursework except two teaching field courses;
9. Passing score on a comprehensive assessment documenting mastery of the curriculum of professional studies and the teaching field;
10. Passing score on the Basic Skills Assessments of the Alabama Prospective Teacher Testing Program (APTTP);
11. Passing score on the appropriate Praxis II Subject Assessment;
12. Demonstration of the dispositions needed to be successful as a teacher of middle and high school students, including students with special needs;
13. Documentation of requisite contact hours in schools; and
14. Criminal history background check status shown as "cleared" on Alabama Department of Education database.

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 website www.ed.uab.edu, and should be completed and returned to the Office of Student Services, Room 100, 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 are required to pass a comprehensive assessment documenting mastery of the curriculum of professional studies and the teaching field.
5. Students must successfully complete a professional portfolio documenting readiness to teach before being recommended for certification. For guidelines contact an academic advisor.
6. Students must document a passing score on the Basic Skills Assessments and appropriate Praxis II Subject Assessment. Official score reports must be sent to both UAB and the Alabama Department of Education.
7. The Alabama 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, Room 100, 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 for any courses. A second option is to pursue the Alternative Master's Program. Completion of this program and all of 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 Department of Education's website (www.alsde.edu) or by contacting eduadvise@uab.edu.

Course Descriptions
Education (EDU)

EDU 100 - Introduction to Education - 1
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
Formal introduction to the Teacher Education Program (TEP). Provides clear and realistic understanding of issues involved in choosing education as a career.

EDU 210 - Writing/Speaking Skills for Educational Professionals - 3
Development of essential writing and speaking skills required for successful education practice.

Geography (GEO)

GEO 101 - Intro to Geography - 3
Basic concepts and principles underlying major research traditions of geography, including earth science, culture-environment, and location and area analysis.

GEO 121 - World Regional Geography - 3
Modern worlds great culture realms using basic ideas and concepts in field of geography.

GEO 221 - Geography of North America - 3
Nature and character of places, especially as caused by relationship between human beings and environment.

Department of Curriculum and Instruction

Chair: Charles Calhoun
Faculty: Aldridge, Burns, Christensen, Eason, Emfinger, Kamii, Kirkland, Martin, Meadows, Patterson, Perry, Pierce, Radford, Schwarzer, Sims, Smith, Spezzini, Strevy

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), high school education (grades 6-12), and foreign language education. Programs in art education (grades P-12), instrumental music education (grades P-12), and vocal/choral music education (grades P-12) are offered in conjunction with the School of Arts and Humanities. A program in middle school mathematics (grades 4-8) is offered in conjunction with the School of Natural Sciences and Mathematics. 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.

Faculty advisors in the department are assigned following students' acceptance into the Teacher Education Program (TEP).

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.

CORE CURRICULUM FOR EARLY CHILDHOOD & ELEMENTARY EDUCATION

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 CHI 102 EH 223 GN 102 MU 120 SPA 102** **ARA 101 CM 101 EH 224 GN 201 PHL 100 SPA 108** **ARA 102 CM 105 FLL 120 GN 202 PHL 115 SPA 201** **ARH 101 EH 216 FR 101 GN 204 PHL 116 SPA 202** **ARH 203 EH 217 FR 102 ITL 101 PHL 120 THR 100** **ARH 204 EH 218 FR 108 ITL 102 PHL 125 THR 105** **ARH 206 EH 221 FR 202 JPA 101 PHL 203 THR 200** **CHI 101 EH 222 GN 101 JPA 102 SPA 101** *Note: Literature Sequence Preferred*	3

Area III: Natural Science	Take four semester hours from the following: **BY101/BY102** **BY 123**	4
Area III: Natural Sciences (not Biology)	Select a course from the following courses: **AST 101/AST 111** **CH 115/CH 116** **PH 202/PH 202L** **AST 102/AST 112** **CH 117/CH 118** **PH 221/PH 221L** **AST 103/AST 113** **ENV 108/ENV 109** **PH 222/PH 222L** **AST 105/AST 115** **ES 101/ ES 102** **PHS 101** **CH 105/CH 106** **ES 103/ ES 104** **CH 107/CH 108** **PH 201/PH 201L**	4
Area III: Mathematics	Select one of the following courses: **MA 105** **MA 107** **MA 110** **MA 126** **MA 252** **MA 106** **MA 109** **MA 125** **MA 227** **MA 260**	3
Area IV: History	Select one of the following courses: **HY 101** **HY 102** **HY 104** **HY 105** **HY 120** **HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101** **GEO 121** **HY 120** **PSC 102** **SOC 245** **ANTH 106** **HY 101** **HY 121** **PSC 221** **WS 100** **ANTH 120** **HY 102** **ITS 101** **PY 101** **EC 210** **HY 104** **ITS 205** **PY 212** **EC 211** **HY 105** **PSC 101** **SOC 100** *Note: ANTH 101 or GEO 121 preferred*	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101** **EC 211** **PSC 101** **PY 212** **ANTH 106** **GEO 121** **PSC 102** **SOC 100** **ANTH 120** **ITS 101** **PSC 221** **SOC 245** **EC 210** **ITS 205** **PY 101** **WS 100** *Note: PY 101 and SOC 100 preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218** **HY 101 + HY 102** **EH 221 + EH 222** **HY 104 + HY 105** **EH 223 + EH 224** **HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR EARLY CHILDHOOD & ELEMENTARY EDUCATION

Requirement	Fulfilled By:	Hrs.
Additional Laboratory Science	Select one course (with laboratory) from the following courses: **AST 101/AST 111** **CH 115/CH 116** **AST 102/AST 112** **CH 117/CH 118** **AST 103/AST 113** **ENV 108/ENV 109** **AST 105/AST 115** **ES 101/ES 102** **BY 101/BY 102** **ES 103/ES 104** **BY 111/BY 112** **PH 201/PH 201L** **BY 123** **PH 202/PH 202L** **BY 124** **PH 221/PH 221L** **CH 105/CH 106** **PH 222/PH 222L** **CH 107/CH 108** **PHS 101** **Note: Students may NOT use the same course to satisfy this requirement and the Area III: Science requirement.*	4

Math Requirement (AGSC)	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260** **Note: Students may NOT use the same course to satisfy this requirement and the Area III: Math requirement.*	3
Additional Math Requirements	Any 100-level or higher math course not used above. **Note: MA 313 and MA 314 preferred.*	6
Psychology	Take the following course: **PY 101** *Note: This course will apply toward this requirement as well as Core Curriculum Area IV.*	3
	Total Lower Division Requirements:	**16**

MAJOR REQUIREMENTS FOR EARLY CHILDHOOD EDUCATION & ELEMENTARY EDUCATION

Requirement	Fulfilled By:	Hrs.
Foundations & Professional Studies	Take the following courses: **EDU 200 HPE 200 ECY 300 EDF 362 EPR 363** **EDT 300 EEC 300 EEC301** *Note: Required for admission to TEP*	23
Teaching Field Courses	Take the following courses: **EEC 302 HPE 301 EEC 415 EDR 440* EEC 405*** **EEC 406* EPR 410* EDR 443* EEC 412* EEC 413*** **EEC 414*** **Note: Must be admitted to TEP.*	33
Internship	Take the following courses: **EEC 490 EEC 491**	12
	Total Major Requirements:	**68**

Middle School Education

A program in middle school mathematics (grades 4-8) is offered in conjunction with the School of Natural Sciences and Mathematics. 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.

Secondary Education

The secondary education program offers a major in high school education and certification areas for grades 6–12 in biology, chemistry, English language arts, French, general science, general social science, mathematics, and physics, and a certification area for grades P-12 in Spanish. Programs leading to grades P-12 certification in art and music (instrumental and vocal/choral) are offered in conjunction with the School of Arts and Humanities. A minor in secondary education is available.

In compliance with the federal No Child Left Behind Act, students obtaining teacher certification in a secondary (grades 6-12) or P-12 area must have an academic major in the field in which they seek certification. As a result, students pursuing high school education majors must declare education and their teaching field as double majors. Students may list education as the primary major and the teaching field (e.g., chemistry) as the second major or list the teaching field (e.g., chemistry) as the primary major and education as the second major. Students completing the program will receive a single degree with both majors listed. The degree (B.A. or B.S.) depends upon the primary major.

Due to Alabama Department of Education regulations for teachers, Core Curriculum requirements for education majors are more specific than Core Curriculum requirements for the teaching field major. The specific courses taken to satisfy the Core Curriculum also vary with each teaching field and major. Students should obtain a program checklist from the Office of Student Services, Room 100, Education Building.

High School Education/Biology (Double Major)

This program is a double major in high school education and biology and leads to teacher certification in biology only. Students wishing to teach biology and other sciences should see the next section entitled "High School Education/Biology (Double Major) – General Science".

CORE CURRICULUM FOR HIGH SCHOOL EDUCATION/BIOLOGY DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/Humanities	Select one of the following courses: **AAS 200 CHI 102 EH 223 GN 102 MU 120 SPA 102** **ARA 101 CM 101 EH 224 GN 201 PHL 100 SPA 108** **ARA 102 CM 105 FLL 120 GN 202 PHL 115 SPA 201** **ARH 101 EH 216 FR 101 GN 204 PHL 116 SPA 202** **ARH 203 EH 217 FR 102 ITL 101 PHL 120 THR 100** **ARH 204 EH 218 FR 108 ITL 102 PHL 125 THR 105** **ARH 206 EH 221 FR 202 JPA 101 PHL 203 THR 200** **CHI 101 EH 222 GN 101 JPA 102 SPA 101**	3
Area III: Natural Science	Fulfilled By Biology Major Requirements	8
Area III: Mathematics	Fulfilled By Biology Major Requirements	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: History or Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 Preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 104 + HY 105** **EH 223 + EH 224 HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR HIGH SCHOOL EDUCATION/BIOLOGY DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Psychology	Take the following course **PY 101** *Note: This course will apply toward this requirement as well as Core Curriculum Area*	3
Additional Math	**MA 125** *Note: If not taken in Area III*	4
Chemistry Requirements	**CH 115/CH 116 CH 117/CH 118 CH 235/236 CH 237/238**	16
Physics Requirements	Select one Physics Sequence **PH 201 + PH202 PH 221+ PH222**	8
	Total Lower Division Requirements:	**31**

MAJOR REQUIREMENTS FOR HIGH SCHOOL EDUCATION

Requirement	Fulfilled By:	Hrs.
Foundations & Professional Studies	Take the following courses **EDU 200 HPE 200 ECY 300 EDF 362 EPR 363** **EDT 300**	16
Secondary Education Courses	Take the following courses **EHS 401 EHS 402 EHS 456 EHS 467 EHS 471** **EPR 411** *Note: Admission to TEP required*	15
Internship	Take the following courses **EHS 489 EHS 490**	10
	Total Major Requirements:	**41**

MAJOR REQUIREMENTS FOR BIOLOGY

Requirement	Fulfilled By:	Hrs.
Additional Requirements	All other requirements for this major must be met (i.e., grade point average, residency) At least nineteen semester hours of biology courses must be at the 300-400 level, with at least nine semester hours at the 400 level.	-
Introductory Biology	Take the following courses **BY 123 BY 124** *Note: If not taken in Area III of the core curriculum*	8
Genetics	Take the following course **BY 210**	3
Ecology/Evolution	Select one of the following courses **BY 407 BY 429 BY 435 BY 470**	3-4
Organismal Biology	Select one of the following courses **BY 255 BY 256 BY 260 BY 271 BY 442**	4
Physiology/Development	Select one of the following courses **BY 314 BY 405 BY 409 BY 410 BY 450**	3-4
Cellular/Molecular	Select one of the following courses **BY 311 BY 330**	3
Biology Electives	Consult Your Biology Advisor	14-16
	Total Major Requirements:	**40**

High School Education/Biology (Double Major) – General Science

This program is a double major in high school education and biology and leads to teacher certification in general science. Students wishing to teach biology only should see the previous section entitled "High School Education/Biology (Double Major)".

CORE CURRICULUM FOR HIGH SCHOOL EDUCATION/BIOLOGY DOUBLE MAJOR - GENERAL SCIENCE

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses **EH 101** **EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses **EH 216** **EH 218** **EH 222** **EH 224** **EH 217** **EH 221** **EH 223**	3
Area II: Fine Arts	Select one of the following courses **ARH 101** **ARH 204** **MU 120** **THR 105** **ARH 203** **ARH 206** **THR 100** **THR 200**	3
Area II: Fine Arts/Humanities	Select one of the following courses **AAS 200** **CHI 102** **EH 223** **GN 102** **MU 120** **SPA 102** **ARA 101** **CM 101** **EH 224** **GN 201** **PHL 100** **SPA 108** **ARA 102** **CM 105** **FLL 120** **GN 202** **PHL 115** **SPA 201** **ARH 101** **EH 216** **FR 101** **GN 204** **PHL 116** **SPA 202** **ARH 203** **EH 217** **FR 102** **ITL 101** **PHL 120** **THR 100** **ARH 204** **EH 218** **FR 108** **ITL 102** **PHL 125** **THR 105** **ARH 206** **EH 221** **FR 202** **JPA 101** **PHL 203** **THR 200** **CHI 101** **EH 222** **GN 101** **JPA 102** **SPA 101**	3
Area III: Natural Science	Fulfilled By Biology Major Requirements	8
Area III: Mathematics	Fulfilled By Biology Major Requirements	3
Area IV: History	Select one of the following courses **HY 101** **HY 102** **HY 104** **HY 105** **HY 120** **HY 121**	3
Area IV: History or Social & Behavioral Sciences	Select one of the following courses **ANTH 101** **GEO 121** **HY 120** **PSC 102** **SOC 245** **ANTH 106** **HY 101** **HY 121** **PSC 221** **WS 100** **ANTH 120** **HY 102** **ITS 101** **PY 101** **EC 210** **HY 104** **ITS 205** **PY 212** **EC 211** **HY 105** **PSC 101** **SOC 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses **ANTH 101** **EC 211** **PSC 101** **PY 212** **ANTH 106** **GEO 121** **PSC 102** **SOC 100** **ANTH 120** **ITS 101** **PSC 221** **SOC 245** **EC 210** **ITS 205** **PY 101** **WS 100** *Note: PY 101 Preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below **EH 217 + EH 218** **HY 101 + HY 102** **EH 221 + EH 222** **HY 104 + HY 105** **EH 223 + EH 224** **HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR HIGH SCHOOL EDUCATION/BIOLOGY

Requirement	Fulfilled By:	**Hrs.**
Psychology	Take the following course **PY 101** *Note: This course will apply toward this requirement as well as Core Curriculum Area*	3
Additional Math	**MA 125** *Note: If not taken in Area III*	4
Chemistry Requirements	Take the following courses **CH 115/CH 116 CH 117/CH 118 CH 235/236 CH 237/238**	16
Physics Requirements	Select one Physics Sequence **PH 201 + PH202 PH 221+ PH222**	8
Physical Geology	Take the following course **ES 101/102**	4
Astronomy	Take one lecture/lab combination **AST 101/111 AST 102/112 AST 103/113**	4
	Total Lower Division Requirements:	**39**

MAJOR REQUIREMENTS FOR HIGH SCHOOL EDUCATION

Requirement	**Fulfilled By:**	**Hrs.**
Foundations & Professional Studies	Take the following courses **EDU 200 HPE 200 ECY 300 EDF 362 EPR 363** **EDT 300**	16
Secondary Education Courses	Take the following courses **EHS 401 EHS 402 EHS 456 EHS 467 EHS 471** **EPR 411** *Note: Admission to TEP required*	15
Internship	Take the following courses **EHS 489 EHS 490**	10
	Total Major Requirements:	**41**

MAJOR REQUIREMENTS FOR BIOLOGY

Requirement	**Fulfilled By:**	**Hrs.**
Additional Requirements	All other requirements for this major must be met (i.e., grade point average, resi- At least nineteen semester hours of biology courses must be at the 300-400 level, with at least nine semester hours at the 400 level.	-
Introductory Biology	Take the following courses **BY 123 BY 124** *Note: If not taken in Area III of the core curriculum*	8
Genetics	Take the following course **BY 210**	3
Ecology/Evolution	Select one of the following courses **BY 407 BY 429 BY 435 BY 470**	3-4
Organismal Biology	Select one of the following courses **BY 255 BY 256 BY 260 BY 271 BY 442**	4
Physiology/Development	Select one of the following courses **BY 314 BY 405 BY 409 BY 410 BY 450**	3-4
Cellular/Molecular	Select one of the following courses **BY 311 BY 330**	3
Biology Electives	Consult Your Biology Advisor	14-16
	Total Major Requirements:	**40**

High School Education/Chemistry (Double Major)

CORE CURRICULUM FOR HIGH SCHOOL EDUCATION/CHEMISTRY DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/Humanities	Select one of the following courses: **AAS 200 CHI 102 EH 223 GN 102 MU 120 SPA 102** **ARA 101 CM 101 EH 224 GN 201 PHL 100 SPA 108** **ARA 102 CM 105 FLL 120 GN 202 PHL 115 SPA 201** **ARH 101 EH 216 FR 101 GN 204 PHL 116 SPA 202** **ARH 203 EH 217 FR 102 ITL 101 PHL 120 THR 100** **ARH 204 EH 218 FR 108 ITL 102 PHL 125 THR 105** **ARH 206 EH 221 FR 202 JPA 101 PHL 203 THR 200** **CHI 101 EH 222 GN 101 JPA 102 SPA 101**	3
Area III: Natural Science	Fulfilled By Chemistry Major Requirements	8
Area III: Mathematics	Fulfilled By Chemistry Major Requirements	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: History or Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 Preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 104 + HY 105** **EH 223 + EH 224 HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR HIGH SCHOOL EDUCATION/CHEMISTRY DOUBLE MAJOR

Requirement	Fulfilled By:	**Hrs.**
Psychology	Take the following course **PY 101** *Note: If not taken in Area IV.*	3
Additional Math	Take the following courses **MA 125*** **MA 126** **(If not taken in Area III)*	8
Biology Requirements	**BY 123** **BY 124**	8
Physics Requirements	Select one Physics Sequence **PH 201 + PH202** **PH 221+ PH222**	8
	Total Lower Division Requirements:	**27**

MAJOR REQUIREMENTS FOR HIGH SCHOOL EDUCATION

Requirement	**Fulfilled By:**	**Hrs.**
Foundations & Professional Studies	Take the following courses **EDU 200** **HPE 200** **ECY 300** **EDF 362** **EPR 363** **EDT 300**	16
Secondary Education Courses	Take the following courses **EHS 401** **EHS 402** **EHS 456** **EHS 467** **EHS 471** **EPR 411** *Note: Admission to TEP required*	15
Internship	Take the following courses **EHS 489** **EHS 490**	10
	Total Major Requirements:	**41**

MAJOR REQUIREMENTS FOR CHEMISTRY

Requirement	**Fulfilled By:**	**Hrs.**
Additional Requirements	All other requirements for this major must be met (i.e., grade point average, residency) At least nineteen semester hours of chemistry courses must be at the 300-400 level.	-
General Chemistry	Take the following courses **CH 115/116** **CH 117/118** *Note: If not taken in Area III of the core curriculum*	8
Organic Chemistry	Take the following courses **CH 235/236** **CH 237/238**	8
Chemistry	Take the following courses **CH 325** **CH 326** **CH 345** **CH 355** **CH 440** **CH 461**	22
Computer Science	Take the following course **CS 101**	3
Chemistry Electives	Select two of the following: **CH 450** **CH 462** **CH 463** **CH 464** **CH 465** **CH 471** **CH 480** **CH 481**	6-8
	Total Major Requirements:	**47-49**

High School Education/English (Double Major)

This curriculum results in a double major in high school education and English, with teacher certification in English language arts.

CORE CURRICULUM FOR HIGH SCHOOL EDUCATION & ENGLISH DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Fine Arts/ Humanities	Take the following courses: **EH 221 EH 222 THR 100**	9
Area III: Natural Sciences	Select a course from the following courses: **AST 101/AST 111 AST 102/AST 112 AST 103/AST 113 AST 105/AST 115** **BY 101/BY 102 BY 111/BY 112 BY 123 BY 124** **CH 105/CH 106 CH 107/CH 108 CH 115/CH 116 CH 117/CH 118** **ENV 108/ENV 109 ES 101/ES 102 ES 103/ES 104 PH 201/PH 211** **PH 202/PH 212 PH 221/PH 231 PH 222/PH 232 PHS 101**	8
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 preferred*	6
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR HIGH SCHOOL EDUCATION/ENGLISH DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Psychology	Take the following course **PY 101** *Note: If not taken in Area IV.*	3
Mass Communication	Take the following courses **MC 101 MC 106**	6
	Total Lower Division Requirements:	**9**

MAJOR REQUIRMENTS FOR HIGH SCHOOL EDUCATION

Requirement	Fulfilled By:	Hrs.
Foundations & Professional Studies	Take the following courses: **EDU 200 HPE 200 ECY 300 EDF 362 EPR 363** **EDT 300**	16
Secondary Education Courses	Take the following courses: **EHS 401 EHS 402 EHS 456 EHS 466 EHS 471** **EPR 411** *Note: Admission to TEP required*	15
Internship	Take the following courses: **EHS 489 EHS 490**	10
	Total Major Requirements:	**41**

MAJOR REQUIREMENTS FOR ENGLISH

Requirement	Fulfilled By:	Hrs.
Additional Requirements	All other requirements for this major must be met (i.e., grade point average, residency) A grade of C or better required EH 491 and EH 492 meet distribution requirements only when their contents fall within one of the distribution areas listed below. Both courses require approval. At least nineteen semester hours of English courses must be at the 300-400 level.	-
Literature	Select three of the following: **EH 217 EH 218 EH 223 EH 224**	9
Additional Literature	Take the following courses: **EH 301 EH 476**	6
African American Survey	Select one of the following: **EH 365 EH 366**	3
Non-Shakespearean British Literature before 1660	Select one of the following: **EH 469 EH 470 EH 471 EH 473 EH 474** **EH 475 EH 478 EH 491 EH 492**	3
British Literature after 1660	Select two of the following: **EH 414 EH 480 EH 481 EH 482 EH 483** **EH 485 EH 486 EH 487 EH 488 EH 489** **EH 491 EH 492**	6
American Literature	Select two of the following: **EH 416 EH 445 EH 446 EH 447 EH 448** **EH 460 EH 461 EH 462 EH 463 EH 464** **EH 465 EH 466 EH 467 EH 468 EH 491** **EH 492**	6
Linguistics & Grammar	Take the following courses **EH 250 EH 452**	6
Expository Writing	Select one of the following: **EH 401 EH 402 EH 457 EH 459**	3
Creative Writing	Select one of the following: **EH 405 EH 406 EH 407 EH 408 EH 409** **EH 410 EH 417 EH 418 EH 435 EH 492**	3
Young Adult Literature	Take the following course **EH 419**	3
	Total Major Requirements:	**48**

High School Education/Foreign Languages: French (Double Major)

CORE CURRICULUM FOR HIGH SCHOOL EDUCATION & FRENCH DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223** *Note: EH 218 will fulfill this requirement & a requirement in the major*	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 CHI 102 EH 223 GN 102 MU 120 SPA 102** **ARA 101 CM 101 EH 224 GN 201 PHL 100 SPA 108** **ARA 102 CM 105 FLL 120 GN 202 PHL 115 SPA 201** **ARH 101 EH 216 FR 101 GN 204 PHL 116 SPA 202** **ARH 203 EH 217 FR 102 ITL 101 PHL 120 THR 100** **ARH 204 EH 218 FR 108 ITL 102 PHL 125 THR 105** **ARH 206 EH 221 FR 202 JPA 101 PHL 203 THR 200** **CHI 101 EH 222 GN 101 JPA 102 SPA 101** *Note: FLL 120 will fulfill this requirement and a requirement in the major*	3
Area III: Natural Sciences	Select a course from the following courses: **AST 101/AST 111 BY 123 ENV 108/ENV 109 PH 222/PH 222L** **AST 102/AST 112 BY 124 ES 101/ ES 102 PHS 101** **AST 103/AST 113 CH 105/CH 106 ES 103/ ES 104** **AST 105/AST 115 CH 107/CH 108 PH 201/PH 201L** **BY 101/102 CH 115/CH 116 PH 202/PH 202L** **BY 111/112 CH 117/CH 118 PH 221/PH 221L**	8
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100**	3

Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 104 + HY 105** **EH 223 + EH 224 HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR HIGH SCHOOL EDUCATION/FRENCH DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Psychology	Take the following course **PY 101** *Note: If not taken in Area IV.*	3
French	Take the following courses **FR 101 FR 102**	8
	Total Lower Division Requirements:	**11**

MAJOR REQUIREMENTS FOR HIGH SCHOOL EDUCATION

Requirement	Fulfilled By:	Hrs.
Foundations & Professional Studies	Take the following courses **EDU 200 HPE 200 ECY 300 EDF 362 EPR 363** **EDT 300**	16
Secondary Education Courses	Take the following courses **EHS 401 EHS 402 EHS 456 EFL 485 EHS 471** **EPR 411** *Note: Admission to TEP required*	15
Internship	Take the following courses **EFL 498 EFL 499**	10
	Total Major Requirements:	**41**

MAJOR REQUIREMENTS FOR FRENCH

Requirement	Fulfilled By:	Hrs.
Additional Requirements	All other requirements for this major must be met (i.e., grade point average, residency) A grade of C or better required At least nineteen semester hours of French courses must be at the 300-400 level.	-
Foreign Cultures	**FLL 120** *Note: If not taken in Area II*	3
Additional Introductory Foreign Language Course	**ARA 101 CHI 101 JPA 101 SPA 101/111** **GN 101 ITL 101**	3

Literature	Select one of the following: **FLL 220 EH 218**	3
Linguistics	**LING 250**	3
Foreign Languages Seminar	**FLL 485**	3
Study Abroad/Foreign Language Internship	**FR 290 FR 390 FR 490 FLL 333**	6
French	Take all of the following courses **FR 201 FR 202 FR 210 FR 307** **FR 308 FR 310 FR 311**	21
French Electives 200 Level	**See your Academic Advisor**	3
French Electives 400 Level	**Select 3 courses from UAB. See your academic advisor.**	9
	Total Major Requirements:	54

High School Education/Foreign Languages: Spanish (Double Major)

CORE CURRICULUM FOR HIGH SCHOOL EDUCATION & SPANISH DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223** *Note: EH 218 will fulfill this requirement & a requirement in the major.*	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 CHI 102 EH 223 GN 102 MU 120 SPA 102** **ARA 101 CM 101 EH 224 GN 201 PHL 100 SPA 108** **ARA 102 CM 105 FLL 120 GN 202 PHL 115 SPA 201** **ARH 101 EH 216 FR 101 GN 204 PHL 116 SPA 202** **ARH 203 EH 217 FR 102 ITL 101 PHL 120 THR 100** **ARH 204 EH 218 FR 108 ITL 102 PHL 125 THR 105** **ARH 206 EH 221 FR 202 JPA 101 PHL 203 THR 200** **CHI 101 EH 222 GN 101 JPA 102 SPA 101** *Note: FLL 120 will fulfill this requirement and a requirement in the major*	3
Area III: Natural Sciences	Select a course from the following courses: **AST 101/AST 111 AST 102/AST 112 AST 103/AST 113 AST 105/AST 115** **BY 101/BY 102 BY 111/BY 112 BY 123 BY 124** **CH 105/CH 106 CH 107/CH 108 CH 115/CH 116 CH 117/CH 118** **ENV 108/ENV 109 ES 101/ES 102 ES 103/ES 104 PH 201/PH 211** **PH 202/PH 212 PH 221/PH 231 PH 222/PH 232 PHS 101**	8

Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 104 + HY 105** **EH 223 + EH 224 HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR HIGH SCHOOL EDUCATION/SPANISH DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Psychology	Take the following course **PY 101** *Note: If not taken in Area IV.*	3
Spanish	Take the following courses **SPA 101/111 SPA 102**	8
	Total Lower Division Requirements:	**11**

MAJOR REQUIREMENTS FOR HIGH SCHOOL EDUCATION

Requirement	Fulfilled By:	Hrs.
Foundations & Professional Studies	Take the following courses **EDU 200 HPE 200 ECY 300 EDF 362 EPR 363** **EDT 300**	16
Secondary Education Courses	Take the following courses **EHS 401 EHS 402 EHS 456 EFL 485 EHS 471** **EPR 411** *Note: Admission to TEP required*	15
Internship	Take the following courses **EFL 498 EFL 499**	10
	Total Major Requirements:	**41**

MAJOR REQUIREMENTS FOR SPANISH

Requirement	Fulfilled By:	Hrs.
Additional Requirements	All other requirements for this major must be met (i.e., grade point average, residency) A grade of C or better required At least nineteen semester hours of Spanish courses must be at the 300-400 level.	-
Foreign Cultures	**FLL 120** *Note: If not taken in Area II*	3
Additional Introductory Foreign Language Course	**FR 101 ARA 101 ITL 101** **GN 101 CHI 101 JPA 101**	3
Literature	Select one of the following **FLL 220 EH 218**	3
Linguistics	**LING 250**	3
Foreign Languages Seminar	**FLL 485**	3
Study Abroad/Foreign Language Internship	**SPA 290 SPA 390 SPA 490 FLL 333**	6
Spanish	Take all of the following courses **SPA 201 SPA 202 SPA 210 SPA 300 SPA 304** **SPA 311 SPA 312**	21
Spanish Electives 200 Level	See your Academic Advisor	3
Spanish Electives 400 Level	Select 3 course from UAB. See your academic advisor.	9
	Total Major Requirements:	**54**

High School Education/History (Double Major)

This curriculum results in a double major in high school education and history, with teacher certification in general social science.

CORE CURRICULUM FOR HIGH SCHOOL EDUCATION & HISTORY DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223** *Note: EH 218 will fulfill this requirement & a requirement in the major.*	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3

Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 CHI 102 EH 223 GN 102 MU 120 SPA 102** **ARA 101 CM 101 EH 224 GN 201 PHL 100 SPA 108** **ARA 102 CM 105 FLL 120 GN 202 PHL 115 SPA 201** **ARH 101 EH 216 FR 101 GN 204 PHL 116 SPA 202** **ARH 203 EH 217 FR 102 ITL 101 PHL 120 THR 100** **ARH 204 EH 218 FR 108 ITL 102 PHL 125 THR 105** **ARH 206 EH 221 FR 202 JPA 101 PHL 203 THR 200** **CHI 101 EH 222 GN 101 JPA 102 SPA 101** *Note: FLL 120 will fulfill this requirement and a requirement in the major*	3
Area III: Natural Sciences	Select a course from the following courses: **AST 101/AST 111 AST 102/AST 112 AST 103/AST 113 AST 105/AST 115** **BY 101/BY 102 BY 111/BY 112 BY 123 BY 124** **CH 105/CH 106 CH 107/CH 108 CH 115/CH 116 CH 117/CH 118** **ENV 108/ENV 109 ES 101/ES 102 ES 103/ES 104 PH 201/PH 211** **PH 202/PH 212 PH 221/PH 231 PH 222/PH 232 PHS 101**	8
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area IV: History	Fulfilled by history major requirements	3
Social & Behavioral Science	Take the following courses **PY 101 GEO 121**	6
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR HIGH SCHOOL EDUCATION/HISTORY DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Additional Social & Behavioral Science	Take the following courses: **PSC 101 PSC 221 SOC 100 GEO 221**	12
	Total Lower Division Requirements:	**12**

UPPER DIVISION REQUIREMENTS FOR HIGH SCHOOL EDUCATION/HISTORY DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Economics	**EC 440**	3
	Total Upper Division Requirements:	**3**

MAJOR REQUIREMENTS FOR HIGH SCHOOL EDUCATION

Requirement	Fulfilled By:	Hrs.
Foundations & Professional Studies	Take the following courses **EDU 200 HPE 200 ECY 300 EDF 362 EPR 363** **EDT 300**	16
Secondary Education Courses	Take the following courses **EHS 401 EHS 402 EHS 456 EHS 468 EHS 471** **EPR 411** *Note: Admission to TEP required*	15
Internship	Take the following courses **EHS 489 EHS 490**	10
	Total Major Requirements:	**41**

MAJOR REQUIREMENTS FOR HISTORY

Requirement	Fulfilled By:	Hrs.
Additional Requirements	All other requirements for this major must be met (i.e., grade point average, residency) A grade of C or better required At least nineteen semester hours of history courses must be at the 300-400 level.	-
History	**HY 101 HY 102 HY 120 HY 121 HY225** **HY 300**	18
Non-Western History	Select one of the following courses: **HY 271 HY 476 HY 477**	3
History 300-400 level Electives	Must be taken at UAB See your Academic Advisor	9
History 400 level electives	Must be taken at UAB See your Academic Advisor	9
	Total Major Requirements:	**39**

High School Education/Mathematics (Double Major)

CORE CURRICULUM FOR HIGH SCHOOL EDUCATION & MATHEMATICS DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 CHI 102 EH 223 GN 102 MU 120 SPA 102** **ARA 101 CM 101 EH 224 GN 201 PHL 100 SPA 108** **ARA 102 CM 105 FLL 120 GN 202 PHL 115 SPA 201** **ARH 101 EH 216 FR 101 GN 204 PHL 116 SPA 202** **ARH 203 EH 217 FR 102 ITL 101 PHL 120 THR 100** **ARH 204 EH 218 FR 108 ITL 102 PHL 125 THR 105** **ARH 206 EH 221 FR 202 JPA 101 PHL 203 THR 200** **CHI 101 EH 222 GN 101 JPA 102 SPA 101** *Note: Literature Sequence Preferred*	3
Area III: Natural Sciences	Select a course from the following courses: **AST 101/AST 111 AST 102/AST 112 AST 103/AST 113 AST 105/AST 115** **BY 101/BY 102 BY 111/BY 112 BY 123 BY 124** **CH 105/CH 106 CH 107/CH 108 CH 115/CH 116 CH 117/CH 118** **ENV 108/ENV 109 ES 101/ES 102 ES 103/ES 104 PH 201/PH 211** **PH 202/PH 212 PH 221/PH 231 PH 222/PH 232 PHS 101**	8
Area III: Mathematics	Fulfilled by mathematics major requirements.	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3

Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 104 + HY 105** **EH 223 + EH 224 HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR HIGH SCHOOL EDUCATION/MATHEMATICS DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Psychology	Take the following course **PY 101** *Note: If not taken in Area IV.*	3
Computer Science	Take the following course: **CS 201**	4
	Total Lower Division Requirements:	**7**

MAJOR REQUIREMENTS FOR HIGH SCHOOL EDUCATION

Requirement	Fulfilled By:	Hrs.
Foundations & Professional Studies	Take the following courses **EDU 200 HPE 200 ECY 300 EDF 362 EPR 363** **EDT 300**	16
Secondary Education Courses	Take the following courses **EHS 401 EHS 402 EHS 456 EHS 465 EHS 471** **EPR 411** *Note: Admission to TEP required*	15
Internship	Take the following courses **EHS 489 EHS 490**	10
	Total Major Requirements:	**41**

MAJOR REQUIREMENTS FOR MATHEMATICS

Requirement	Fulfilled By:	Hrs.
Additional Requirements	All other requirements for this major must be met (i.e., grade point average, residency) A grade of C or better required At least nineteen semester hours of mathematics courses must be at the 300-400 level.	-
Mathematics	**MA 125 MA 126 MA 227 MA 252 MA 311** **MA 361 MA 434 MA 435 MA 440 MA 441** **MA 472 ME 485 MA 486**	
	Total Major Requirements:	**42**

High School Education/Physics (Double Major)

CORE CURRICULUM FOR HIGH SCHOOL EDUCATION & PHYSICS DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 EH 218 FR 202 PHL 115 SPA 202** **ARH 101 EH 221 GN 101 PHL 116 THR 100** **ARH 203 EH 222 GN 102 PHL 120 THR 105** **ARH 204 EH 223 GN 201 PHL 125 THR 200** **ARH 206 EH 224 GN 202 PHL 203** **CM 105 FR 101 GN 204 SPA 101** **EH 216 FR 102 MU 120 SPA 102** **EH 217 FR 102 PHL 100 SPA 201** *Note: Literature Sequence Preferred*	3
Area III: Natural Science	Fulfilled by physics major requirements.	8
Area III: Mathematics	Fulfilled by physics major requirements.	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 104 + HY 105** **EH 223 + EH 224 HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR HIGH SCHOOL EDUCATION/PHYSICS DOUBLE MAJOR

Requirement	Fulfilled By:	Hrs.
Psychology	Take the following course **PY 101** *Note: If not taken in Area IV.*	3
Mathematics	Take the following courses **MA 125 MA126 MA 227 MA 252**	15
Mathematics Elective	Must be approved by faculty advisor	3
Chemistry	Take the following courses **CH 115/116 CH 117/118**	8
	Total Lower Division Requirements:	**29**

MAJOR REQUIREMENTS FOR HIGH SCHOOL EDUCATION

Requirement	Fulfilled By:	Hrs.
Foundations & Professional Studies	Take the following courses **EDU 200 HPE 200 ECY 300 EDF 362 EPR 363** **EDT 300**	16
Secondary Education Courses	Take the following courses **EHS 401 EHS 402 EHS 456 EHS 467 EHS 471** **EPR 411** *Note: Admission to TEP required*	15
Internship	Take the following courses **EHS 489 EHS 490**	10
	Total Major Requirements:	**41**

MAJOR REQUIREMENTS FOR PHYSICS

Requirement	Fulfilled By:	Hrs.
Additional Requirements	All other requirements for this major must be met (i.e., grade point average, residency) A grade of C or better required At least nineteen semester hours of physics courses must be at the 300-400 level.	-
Physics	**PH 221 PH 222 PH 351 PH 352 PH 445** **PH 446 PH 450 PH 451 PH 461 PH 462**	34
Thermodynamics	Select one of the following courses **PH 331 PH 432**	3
Optics	Select one of the following courses **PH 425 PH 426 PH 427 PH 428**	3-4
	Total Major Requirements:	**40-41**

Secondary Education Minor

The minor in secondary education helps students understand foundational issues in education, especially those related to teaching in public middle schools and high schools. The secondary education minor *does not* result in teaching certification. When combined with selected majors from the Schools of Arts and Humanities, Natural Sciences and Mathematics, or Social and Behavioral Sciences, the secondary education minor provides an excellent pathway toward the Alternative Master's Program, which does result in teacher certification.

SECONDARY EDUCATION MINOR

Requirement	Fulfilled By:	Hrs.
Education	Take the following courses: **ECY 300 EDT 300 EDF 362 EPR 363 EHS 401** **EHS 402 EDR 442**	19
	Total Minor Requirements:	**19**

Course Descriptions
Art Education (EDA)

EDA 483 - Methods of Teaching Art - 3
Preparation to teach art in schools. Learning experiences necessary for development of essential teaching competencies. Materials and methods in art studio media, technology skills for art classroom, art history and criticism, and current issues in art education. *Co-requisite:* EDA 484

EDA 484 - Methods of Teaching Art Lab - 1
Observations in schools. *Co-requisite:* EDA 483.

EDA 490 - Student Teaching in Art N-12 - 3 to 9
Supervised student teaching in elementary and secondary art.

EDA 499 - Internship Seminar in Art Education - 1
Problem solving related to situations such as classroom management, grading, professionalism and ethics, legal issues, and teacher's rights. *Co-requisite:* EDA 490

See the UAB Graduate School Catalog for descriptions of graduate courses.

Reading Education (EDR)

EDR 440 - Developmental Reading I - 3
Materials and methods. Emphasis on planning balanced program and understanding reading process. Includes field experiences. Admission to TEP required.

EDR 441 - Literature for Adolescents - 3
Literary works written for or about adolescents.

EDR 442 - Reading in Content Areas - 3
Application of principles of reading process to content-area materials and instruction. Designed for elementary, middle, and high school pre-service teachers. Includes field experiences. Admission to TEP required.

EDR 443 - Developmental Reading II - 3
Application of principles of reading process to content-area materials and instruction. Designed for elementary and middle school pre-service teachers. Includes field experiences. Admission to TEP required. *Prerequisites:* EDR 440

EDR 450 - Literature for Elementary/Middle Schools I - 3
Needs of children, selection of books, societal issues in children's literature, and role of media in children's literature.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Elementary and Early Childhood Education (EEC)

EEC 240 - Child Growth, Development, and Learning I - 3
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, and Learning II - 3
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 and Family Relationships - 4
Interrelationship of physical, emotional, intellectual, and social development, and influence of home, school, and social environments on human growth from conception through adolescent years.

EEC 301 - Introduction to P-6 Education - 3
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. *Prerequisites:* EDF 362 and EDU 200 and EPR 363

EEC 302 - Expressive Arts (P-6) - 3
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.

EEC 405 - Children's Literature in Early Childhood and Elementary Education - 3
Materials and methods. Needs of children, selection of books, societal issues in children s literature, and role of media in children's literature. Field experiences required. Admission to TEP required.

EEC 406 - Language Arts in Early Childhood and Elementary Education - 3
Materials and methods. Communication-based approach in developing effective language arts program. All aspects of language arts program addressed. Field experiences required. Admission to TEP required.

EEC 411 - Discipline and Classroom Management - 3
Theoretical and practical application of various theories of discipline. Development of skills in management of student behavior classroom environment.

EEC 412 - Math in Early Childhood and Elementary Education- 3
Materials and methods. Scope, sequence, and content of mathematics program. Computational skills and problem solving. Field experiences required. Admission to TEP required. *Prerequisites:* EDR 440 and EEC 405 and EEC 406

EEC 413 - Science in Early Childhood and Elementary Education- 3
Materials and methods. Scope, sequence, and content of science program. Inquiry, science process skills, and concept development. Field experiences required. Admission to TEP required. *Prerequisites:* EDR 440 and EEC 405 and EEC 406

EEC 414 - Social Studies in Early Childhood and Elementary Education - 3
Materials and methods. Scope, sequence, and content of social studies curriculum. Teaching strategies, program articulation, and instructional planning. Field experiences required. Admission to TEP required. *Prerequisites:* EDR 440 and EEC 405 and EEC 406

EEC 415 - Learning Environments - 3
Theoretical approaches that focus on child-centered curriculum, classroom management, discipline strategies and cultural, linguistic, and developmentally appropriate instruction. Field experience required.

EEC 440 - Workshop in Education - 1 to 6
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 - 1 to 3
Topics vary. May be repeated for maximum of six hours of differing topics.

EEC 490 - Internship in P-3/3-6 - 9
Supervised teaching 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 - 3
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. *Co-requisite*: EEC 490

EEC 492 - Individual Curriculum Projects: Area Specified - 3 to 6
Field projects in curriculum modification and improvement of classroom practice. Permission of instructor required.

EEC 493 - Individual Readings - 1 to 3
Individualized readings on special topics. Permission of instructor required.

EEC 494 - Field Work in Early Childhood and Elementary Education - 1 to 6
Observation and participation experiences with children.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Foreign Language Education (EFL)

EFL 470 - Practicum in Foreign Language N-12 - 1
Assignment to foreign language classroom to teach selected topics in field of certification. Admission to TEP required. *Co-requisite:* EFL 485

EFL 485 - Foreign/Secondary Language Methods - 4
Approaches and methods of teaching and testing foreign language. Selection and use of audiovisual equipment and materials. Structured school observations.

EFL 498 - Students Teaching in Foreign Languages N-12 - 9
Supervised teaching in foreign languages (N-12).

EFL 499 - Internship Seminar in Foreign Lang Education - 1
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. *Co-requisite:* EFL 498

See the UAB Graduate School Catalog for descriptions of graduate courses.

High School Education (EHS)

EHS 401 - Secondary Education Curriculum and Methods I - 3
Coherent view of effective teaching and instructional design in middle and high schools. Students design lesson plans to meet needs of diverse learners. *Co-requisite:* EHS 402

EHS 402 - Practicum I - 1
Interaction with middle and high school teachers and students and representatives from support agencies in their respective environments. Observations, interactions and experiences provide foundation for constructing lesson plans in EHS 401. *Co-requisite:* EHS 401

EHS 456 - Classroom Management in Secondary Schools - 3
Management and instructional problems in secondary schools; techniques for improving study skills and developing better instructional planning.

EHS 459 - History and Philosophy of Math - 3
Historical and cultural significance of mathematical principles taught in secondary mathematics. Historical, social, and scientific influences on mathematics education.

EHS 465 - Secondary Math Methods - 3 to 4
Planning and organization, methods and techniques of teaching mathematics, methods of evaluating student and teacher performance, and professional issues. Methods and techniques for teaching problem solving, using computers and calculators, meeting needs of individual students, dealing with mathematics anxiety, and using manipulative materials. Required microteaching and clinical experiences. *Co-requisite:* EHS 471

EHS 466 - Language Arts Methods - 3 to 4
Curriculum and instruction in English/language arts. *Co-requisite:* EHS 471

EHS 467 - Secondary Science Methods - 3 to 4
Teaching methods and curricula in secondary science programs. *Co-requisite:* EHS 471

EHS 468 - Secondary Social Science Methods - 3 to 4
Curriculum and instruction in social studies. *Co-requisite:* EHS 471

EHS 470 - Practicum II - 1 to 2
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
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
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. *Co-requisite:* EHS 490

EHS 490 - Secondary School Student Teaching I - 9
Observation and teaching in secondary schools.

EHS 491 - Secondary School Student Teaching II - 3 to 6
Supervised teaching in high school.

EHS 497 - Special Problems in Education - 1 to 3
Topics of current interest. May be repeated for total of 6 hours.

EHS 499 - Field Studies: Selected Educational Settings - 1 to 3
Field visits to locations of high educational impact.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Middle School Education (EMS)

EMS 330 - Introduction to Middle/Junior High Teaching - 3
Survey of curriculum, methods and techniques of teaching, materials for instruction, and evaluation of instruction. Field experiences required.

EMS 335 - Materials/Methods of Teaching Middle School - 3
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.

EMS 343 - Implications of Growth and Development in Middle School Years - 3
Developmental stages of students ages 10 -14 with emphasis on developing curricula and teaching strategies compatible with these growth stages. Laboratory and case studies required.

EMS 352 - Teaching Math in Middle and Junior High School - 3
Prerequisites: EMS 343

EMS 451 - Workshop in the Middle School - 1 to 3

Music Education (EMU)

EMU 402 - Methods of Teaching Music N-6 - 3
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. *Co-requisite:* EMU 403

EMU 403 - Methods of Teaching Music N-6 Lab - 1
Public school observation experiences for music education students enrolled in EMU 402. *Co-requisite:* EMU 402

EMU 404 - Methods of Teaching Music in Secondary Education - 3
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. *Co-requisite:* EMU 405

EMU 405 - Methods of Teaching Music in Secondary Education Lab - 1
Public school observation experiences for music education students enrolled in EMU 404. *Co-requisite:* EMU 404

EMU 490 - Internship in Music Education - 9
Supervised teaching in grades N-12 as appropriate to student's teaching field (general music, instrumental music, or vocal/choral music). *Prerequisites:* EMU 402 and EMU 404 and EPR 410

EMU 499 - Internship Seminar in Music Education N-12 - 1
Supports and extends efforts of student teaching. Problem solving related to classroom management, grading, professionalism and ethics, legal issues, teacher rights, and others that occur during internship. *Co-requisite:* EMU 490

Department of Human Studies

Chair: David M. Macrina
Faculty: Abbott, Ahmad, Brooks, Evans, Foster, Geiger, Hester, Hunter, Ivankova, Kohler, Menear, Petri, Roy, Sheets, Shores, Sims, Snyder, Talbott, Tyson

The Department of Human Studies offers undergraduate majors in both health education and physical education. Health education majors choose between two concentrations: community health (non-teaching) or health education teacher certification (grades 6-12). Physical education majors choose between 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 school psychometry/psychology are offered at the graduate level.

Students should contact the Office of Student Services, Room 100, Education Building, early in their studies to obtain pertinent program information related to the Core Curriculum. Students majoring in the department should complete a student information form, available in Room 207, Education Building. Students are assigned faculty advisors once this form is completed. 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). All undergraduate majors must be admitted to their respective programs as a prerequisite to taking upper-division major courses. Procedures are available from the department office.

Course Descriptions
Counseling (ECG)

ECG 300 - Strategies for Effective Career Development - 1
Concepts of career development through assessment, career exploration, experiential education, resume writing, interviewing skills, and job search strategies.

ECG 422 - Strategies for Attitude Development - 3
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 - Strategies for Effective Interviewing - 3
Selected interviewing skills described, demonstrated, and practiced in role play with feedback to increase effectiveness in interviewing.

ECG 424 - Constructive Conflict Management - 3
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 460 - Sign Language I: Survival - 3
Beginning course in manual communication. Finger spelling and language of signs to facilitate communication with individuals who have severe hearing impairments.

ECG 461 - Sign Language II: Intermediate - 3
Manual communication; signed English. Finger spelling and language of signs. *Prerequisites:* ECG 460

ECG 462 - Sign Language III: Advanced - 3
American Sign Language. Syntax structure for more effective communication with adult deaf persons. Sign concept and concept transmission. *Prerequisites:* ECG 461

ECG 463 - Introduction to Interpreting for Deaf - 3
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

ECG 470 - Crisis Intervention Techniques - 3
Crisis counseling theory, applications of crisis intervention, and crisis situations.

ECG 474 - Seminar in Death, Dying, and Bereavement - 3
Attitudes, beliefs, and response to death, dying, and bereavement. Multicultural perspective. Implications for counseling.

ECG 478 - Counseling African-American Clients - 3
Historical, contemporary, and psychosocial forces influencing African-American population. Techniques for counseling African-Americans.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Educational Psychology (EPR)

EPR 005 - Educational Skills - 2
Educational skills needed in pursuing baccalaureate degree. Study skills, evaluation and resources, note taking, test taking, outlining and organization of data, time management, verbal communication, and use of library. May not be used for fulfillment of any degree requirement.

EPR 214 - Introduction to Educational Statistics - 3
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 363 - Foundations of Education II: Psychological - 3
Psychological principles basic to understanding of learner, learning process, and learning situation. Twenty hours of field experiences required. *Prerequisite or Co-requisite:* EDU 200

EPR 410 - Introduction to Measurement and Evaluation in Education - 3
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.

EPR 411 - Measurement and Evaluation in Secondary Education - 3
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. Admission to TEP required.

EPR 414 - Lifespan Human Development - 3
Physical, cognitive, social and moral development across lifespan, including death and dying. *Prerequisite:* PY 101

See the UAB Graduate School Catalog for descriptions of graduate courses.

Health Education

Health Education Major: Teacher Certification Concentration

The emphasis of the health education teacher certification concentration is to prepare students to teach and work collaboratively within the school setting in grades 6-12. Coursework includes exposure to concepts in health and training in teaching methods. Because schools are part of a larger community, coursework extends beyond the classroom experience and examines programming issues involving the community at large. Students are given opportunities to practice skills learned. The combination of courses and experiences provides for a well developed education in health content as well as in planning, implementing, and evaluating school and

community programs and interventions.

Students must earn a C or better in all HE courses and major requirements, including pre-professional courses.

CORE CURRICULUM FOR HEALTH EDUCATION MAJOR: TEACHER CERTIFICATION CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 EH 218 FR 202 PHL 115 SPA 202** **ARH 101 EH 221 GN 101 PHL 116 THR 100** **ARH 203 EH 222 GN 102 PHL 120 THR 105** **ARH 204 EH 223 GN 201 PHL 125 THR 200** **ARH 206 EH 224 GN 202 PHL 203** **CM 105 FR 101 GN 204 SPA 101** **EH 216 FR 102 MU 120 SPA 102** **EH 217 FR 102 PHL 100 SPA 201** *Note: Literature sequence strongly preferred*	3
Area III: Natural Sciences	Select a course from the following courses: **AST 101/AST 111 AST 102/AST 112 AST 103/AST 113 AST 105/AST 115** **BY 101/BY 102 BY 111/BY 112 BY 123 BY 124** **CH 105/CH 106 CH 107/CH 108 CH 115/CH 116 CH 117/CH 118** **ENV 108/ENV 109 ES 101/ES 102 ES 103/ES 104 PH 201/PH 211** **PH 202/PH 212 PH 221/PH 231 PH 222/PH 232 PHS 101** *Note: BY 101/102 and CH 105/106 strongly preferred*	8
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100** *Note: ANTH 101 or GEO 121 preferred*	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 and SOC 100 strongly preferred*	6

Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218** **HY 101 + HY 102** **EH 221 + EH 222** **HY 104 + HY 105** **EH 223 + EH 224** **HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS HEALTH EDUCATION MAJOR: TEACHER CERTIFICATION CONCENTRATION

Requirement	**Fulfilled By:**	**Hrs.**
Psychology	Take the following course **PY 101** *Note: If not taken in Area IV.*	3
Biology	Take the following courses **BY 115 BY 116**	8
Health Education	Take the following courses **HE 140 HE 141**	6
Educational Statistics	Take the following course **EPR 214**	3
Nutrition	Take the following course **NTR 220**	3
	Total Lower Division Requirements:	**23**

MAJOR REQUIREMENTS FOR HEALTH EDUCATION: TEACHER CERTIFICATION CONCENTRATION

Requirement	**Fulfilled By:**	**Hrs.**
Foundations & Professional Studies	Take the following courses **EDU 200 ECY 300 EDF 362 EPR 363 EDT 300**	14
Education Courses	Take the following courses **EHS 401 EHS 402 EHS 456 EHS 471 EPR 411** **EPR 414** *Note: Admission to TEP required*	14
Health Education Courses	Take the following courses **HE 223 HE 342 HE 343 HE 402 HE 408** **HE 421 HE 423 HE 431 HE432 HE 489** *Note: Admission to TEP required*	30
Internship	**EHS 489 HE 497**	10
	Total Major Requirements:	**68**

Health Education Major: Community Health Concentration

Community health education is designed to prepare students for work in a variety of health settings. These include, but are not limited to, national and state government (e.g., health departments), clinical-based programs (e.g., hospital wellness), and community agencies (e.g., national voluntary organizations and private or not-for-profit health-related organizations). In addition to studying general health content, students will learn the basics of planning, implementing, and evaluating health-related programs and interventions. Students are provided opportunities for skills practice.

A minor (minimum 18 semester hours) is required for the community health concentration. All health education electives as well as the minor must be approved by the student's health education faculty advisor.

Students must earn a "C" or better in all pre-professional (lower level requirements) and major requirement courses including HE 499.

CORE CURRICULUM FOR HEALTH EDUCATION MAJOR: COMMUNITY HEALTH CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102**	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 EH 218 FR 202 PHL 115 SPA 202** **ARH 101 EH 221 GN 101 PHL 116 THR 100** **ARH 203 EH 222 GN 102 PHL 120 THR 105** **ARH 204 EH 223 GN 201 PHL 125 THR 200** **ARH 206 EH 224 GN 202 PHL 203** **CM 105 FR 101 GN 204 SPA 101** **EH 216 FR 102 MU 120 SPA 102** **EH 217 FR 102 PHL 100 SPA 201** *Note: Literature Sequence Preferred*	3
Area III: Natural Sciences	Select a course from the following courses: **AST 101/AST 111 AST 102/AST 112 AST 103/AST 113 AST 105/AST 115** **BY 101/BY 102 BY 111/BY 112 BY 123 BY 124** **CH 105/CH 106 CH 107/CH 108 CH 115/CH 116 CH 117/CH 118** **ENV 108/ENV 109 ES 101/ES 102 ES 103/ES 104 PH 201/PH 211** **PH 202/PH 212 PH 221/PH 231 PH 222/PH 232 PHS 101** *Note: BY 101/102 and CH 105/106 strongly preferred*	8
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100** *Note: ANTH 101 or GEO 121 preferred*	3

Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 and SOC 100 strongly preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218** **HY 101 + HY 102** **EH 221 + EH 222** **HY 104 + HY 105** **EH 223 + EH 224** **HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS HEALTH EDUCATION MAJOR: COMMUNITY HEALTH CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Biology	Take the following courses **BY 115 BY 116**	8
Health Education	Take the following courses **HE 140 HE 141**	6
Educational Statistics	Take the following course **EPR 214**	3
Nutrition	Take the following course **NTR 220**	3
	Total Lower Division Requirements:	**20**

MAJOR REQUIREMENTS FOR HEALTH EDUCATION: COMMUNITY HEALTH CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Education Courses	Take the following courses **EDT 300 EPR 414**	6
Health Education Courses	Take the following courses **HE 223 HE 342 HE 343 HE 421 HE 431** **HE432**	18
Health Education Electives	Select three of the following courses: **HE 402 HE 408 HE 423 HE 490** *Note: Requires advisor approval; others may be approved –See HE faculty advisor*	9
Internship	Take the following course **HE 499**	9
	Total Major Requirements:	**42**

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. This minor program is available to all students except health education majors.

HEALTH EDUCATION MINOR

Requirement	Fulfilled By:	Hrs.
Health Education	Take the following courses: **HE 141 HE 223 HE 342**	9
Health Education Electives	Select three of the following courses: **HE 140 HE 343 HE 402 HE 408 HE 491 (Men's Health)** **HE 421 HE 423 HE 426 HE 490* HE 491 (Women's Health)** **Note: with permission of instructor*	9
	Total Minor Requirements:	**18**

Course Descriptions
Health Education (HE)

HE 140 - First Aid - 3
Knowledge and skills needed to perform basic first aid and CPR procedures.

HE 141 - Personal Health - 3
Knowledge and skills that support a healthy lifestyle. Stress management, cardiovascular health, nutrition, and fitness.

HE 222 - Concepts of Health and Fitness - 3
Fitness and related health concepts. Fitness assessment, variety of fitness-related activities, and development of personal fitness program. Nutrition and cardiovascular health. Requires a recent physical exam.

HE 223 - Introduction to Epidemiology and Disease Impact - 3
Disease etiology, incidence, prevalence, prevention, and control. Impact of various diseases on society. *Prerequisites:* HE 141

HE 301- Teaching Health in the Elementary Schools - 2
Techniques, rationale, and resources for implementing health education into school curriculum. Not for health education or physical education majors.

HE 342 - Intro to Health Education - 3
Foundations of health education and health promotion. Key concepts, definitions, models, theories, and skills. *Prerequisites:* HE 141

HE 343 - Theory and Determinants of Health Behavior - 3
Application of health education theories and methods to assist individuals and groups with planned behavior change. Basic steps of program planning and evaluation. *Prerequisites:* HE 141 and HE 342

HE 401 - Death in Contemporary Society - 3

HE 402 - Mental Health and Stress Management - 3
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 - Consumer Health - 3
Various aspects of good consumerism. Skills needed to critically analyze articles and advertisements found in print, electronic and other forms of mass media.

HE 406 - Teaching Health in the Elementary School - 3
Prerequisites: HE 342 and HE 343

HE 408 - Drug Use and Abuse - 3
Concept, manifestation, and causes of addiction. Major drug classifications and their effects. Potential of drug education as preventative mechanism.

HE 421 - Health Communication - 3
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 342

HE 422 - Sex Education and Family Life - 3

HE 423 - Human Sexuality - 3
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 424 - Workshop in Health - 1 to 3

HE 425 - Rape in Perspective - 3

HE 426 - Special Topics in Health - 1 to 3
Topics and format vary by semester.

HE 427 - Special Topics in Health - 1 to 3
Topics and format vary by semester.

HE 428 - Special Topics in Health - 1 to 3

HE 429 - Special Topics in Health - 1 to 3

HE 431 - Plan and Evaluating Effective Health Education and Promotion Programs - 3
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. *Prerequisites:* HE 343

HE 432 - Administration of Health and Fitness Programs - 3
Administrative theory and practice related to health and fitness programs in various settings. Management issues, professional issues, and personal professionalism. *Prerequisites:* HE 342

HE 452 - Evaluation of Health Education Programs - 3
Evaluation of school-based programs and curricula. Current thought and practice related to evaluation of school health programs at individual and system level. *Prerequisites:* HE 489

HE 489 - Health Education Methods - 3
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 343

HE 490 - Special Projects in Health Education - 1 to 6
Exploration of health-related topic via professional literature or research project.

HE 491 - Problems in Health Education - 1 to 6
Controversial topics in health education or topics identified as state or national priority.

HE 497 - Secondary Health Education Student Teaching - 3 to 9
Observation and teaching of health education in area school.

HE 499 - Health Education Internship - 3 to 9
Supervised work experience in a pre-approved community agency/organization.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Physical Education Programs

Students majoring in physical education 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 physical therapy, occupational therapy, or exercise physiology. The fitness leadership program prepares students to be fitness leaders in fitness centers, clinics, or industrial settings.

Physical Education Major: Teacher Certification Concentration

A grade of "C" or better is required in all math, science, and major courses.

CORE CURRICULUM FOR PHYSICAL EDUCATION MAJOR: TEACHER CERTIFICATION CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 EH 218 FR 202 PHL 115 SPA 202** **ARH 101 EH 221 GN 101 PHL 116 THR 100** **ARH 203 EH 222 GN 102 PHL 120 THR 105** **ARH 204 EH 223 GN 201 PHL 125 THR 200** **ARH 206 EH 224 GN 202 PHL 203** **CM 105 FR 101 GN 204 SPA 101** **EH 216 FR 102 MU 120 SPA 102** **EH 217 FR 102 PHL 100 SPA 201** *Note: Literature Sequence Preferred*	3
Area III: Natural Sciences	Select a course from the following courses: **AST 101/AST 111 AST 102/AST 112 AST 103/AST 113 AST 105/AST 115** **BY 101/BY 102 BY 111/BY 112 BY 123 BY 124** **CH 105/CH 106 CH 107/CH 108 CH 115/CH 116 CH 117/CH 118** **ENV 108/ENV 109 ES 101/ES 102 ES 103/ES 104 PH 201/PH 211** **PH 202/PH 212 PH 221/PH 231 PH 222/PH 232 PHS 101** *Note: BY 101/102 and CH 105/106 strongly preferred*	8
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100** *Note: ANTH 101 or GEO 121 preferred*	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 and SOC 100 strongly preferred*	6

Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218** **HY 101 + HY 102** **EH 221 + EH 222** **HY 104 + HY 105** **EH 223 + EH 224** **HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS PHYSICAL EDUCATION MAJOR: TEACHER CERTIFICATION CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Biology	Take the following courses: **BY 115 BY 116**	8
First Aid	Take the following course: **HE 140** *Note: Must be certified in first aid & CPR for waiver.*	0-3
Educational Statistics	Take the following course: **EPR 214**	3
Physical Education Courses	Take the following courses: **PE 115 PE 131 PE 136**	5
Aquatics	Select one of the following courses: **PE 101 PE 102 PE 103**	1
Psychology	Take the following course: **PY 101** *Note: If not taken in Area IV.*	3
	Total Lower Division Requirements:	**20-23**

MAJOR REQUIREMENTS FOR PHYSICAL EDUCATION: TEACHER CERTIFICATION CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Foundations & Professional Studies	Take the following courses **EDU 200 HPE 200 ECY 300 EDF 362 EPR 363** **EDT 300** *Note: Required for admission to TEP*	16
Pre-TEP Major Requirements	Take the following courses **PE 112 PE 114 PE 117 PE 118 PE132** **PE 201 PE 300 PE 305** *Note: Required for admission to TEP*	12
Major Requirements	Take the following courses **PE 307 PE 308 PE 311 PE 320 + 320L** **PE 400 PE 402 PE 407 PE 409 PE 489** *Note: Admission to TEP Required*	30
Internship	Take the following courses **PE 495**	9
	Total Major Requirements:	**67**

Physical Education 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 PHYSICAL EDUCATION MAJOR: EXERCISE SCIENCE CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102**	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 EH 218 FR 202 PHL 115 SPA 202** **ARH 101 EH 221 GN 101 PHL 116 THR 100** **ARH 203 EH 222 GN 102 PHL 120 THR 105** **ARH 204 EH 223 GN 201 PHL 125 THR 200** **ARH 206 EH 224 GN 202 PHL 203** **CM 105 FR 101 GN 204 SPA 101** **EH 216 FR 102 MU 120 SPA 102** **EH 217 FR 102 PHL 100 SPA 201** *Note: Literature Sequence Preferred*	3
Area III: Natural Sciences	Take the following courses: **BY 123 CH 115/116**	8
Area III: Mathematics	Select one of the following courses: **MA 106 MA 125**	3-4
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100** *Note: ANTH 101 or GEO 121 preferred*	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 and SOC 100 strongly preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 104 + HY 105** **EH 223 + EH 224 HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41-42**

LOWER DIVISION REQUIREMENTS PHYSICAL EDUCATION MAJOR: EXERCISE SCIENCE CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Biology	Take the following courses: **BY 115 BY 116**	8
First Aid	Take the following course: **HE 140** *Note: Must be certified in first aid & CPR for waiver.*	0-3
Personal Health	Take the following course: **HE 141**	3
Educational Statistics	Take the following course: **EPR 214**	3
Physical Education	Take the following course: **PE 136**	3
	Total Lower Division Requirements:	**17-20**

MAJOR REQUIREMENTS FOR PHYSICAL EDUCATION: EXERCISE SCIENCE CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Genetics	Take the following course: **BY 210**	3
Chemistry	Take the following course: **CH 117/118**	4
Physics	Take the following courses: **PH 201 PH 202**	8
Psychology Elective	One PY course 200-level or higher approved by faculty advisor	3
Teaching & Technology	**EDT 300**	3
Physical Education	**PE 115 PE 131 PE 132 PE 305 PE 307** **PE 400 PE 402 PE 405 PE 451 PE 485**	23
Physical Education Elective	One PE course 300 level or above (must be approved by faculty advisor)	3
Elective	One math, science, or PE course 200 level or above (must be approved by faculty advisor)	3
Aquatics	Select one of the following courses **PE 101 PE 102 PE 103**	1
Internship	Take the following course: **PE 499**	6
	Total Major Requirements:	**57**

Physical Education 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.

PHYSICAL EDUCATION MINOR

Requirement	Fulfilled By:	Hrs.
First Aid	Take the following course **HE 140** *Note: Must be certified in first aid & CPR for waiver.*	0-3
Biology	Take the following Courses: **BY 115 BY 116**	8
Physical Education	Take the following courses: **PE 307 PE 400 PE 402 PE 485 PE 115** **PE 131**	14
	Total Minor Requirements:	**22-25**

Physical Education 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 may need additional electives to meet this requirement.*

CORE CURRICULUM FOR PHYSICAL EDUCATION MAJOR: FITNESS LEADERSHIP CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102**	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 EH 218 FR 202 PHL 115 SPA 202** **ARH 101 EH 221 GN 101 PHL 116 THR 100** **ARH 203 EH 222 GN 102 PHL 120 THR 105** **ARH 204 EH 223 GN 201 PHL 125 THR 200** **ARH 206 EH 224 GN 202 PHL 203** **CM 105 FR 101 GN 204 SPA 101** **EH 216 FR 102 MU 120 SPA 102** **EH 217 FR 102 PHL 100 SPA 201** *Note: Literature Sequence Preferred*	3
Area III: Natural Sciences	Select a course from the following courses: **AST 101/AST 111 AST 102/AST 112 AST 103/AST 113 AST 105/AST 115** **BY 101/BY 102 BY 111/BY 112 BY 123 BY 124** **CH 105/CH 106 CH 107/CH 108 CH 115/CH 116 CH 117/CH 118** **ENV 108/ENV 109 ES 101/ES 102 ES 103/ES 104 PH 201/PH 211** **PH 202/PH 212 PH 221/PH 231 PH 222/PH 232 PHS 101** *Note: BY 101/102 and CH 105/106 strongly preferred*	8
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 GEO 121 HY 120 PSC 102 SOC 245** **ANTH 106 HY 101 HY 121 PSC 221 WS 100** **ANTH 120 HY 102 ITS 101 PY 101** **EC 210 HY 104 ITS 205 PY 212** **EC 211 HY 105 PSC 101 SOC 100** *Note: ANTH 101 or GEO 121 preferred*	3

Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 101 and SOC 100 strongly preferred*	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 104 + HY 105** **EH 223 + EH 224 HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS PHYSICAL EDUCATION MAJOR: FITNESS LEADERSHIP CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Biology	Take the following courses **BY 115 BY 116**	8
First Aid	Take the following course **HE 140** *Note: Must be certified in first aid & CPR for waiver.*	0-3
Personal Health	Take the following course **HE 141**	3
Educational Statistics	Take the following course **EPR 214**	3
Physical Education	Take the following course **PE 136**	3
	Total Lower Division Requirements:	**17-20**

MAJOR REQUIREMENTS FOR PHYSICAL EDUCATION: FITNESS LEADERSHIP CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Teaching & Technology	**EDT 300**	3
Health Education	Take the following courses **HE 223 HE 342 HE 343**	9
Physical Education	**PE 115 PE 307 PE 131 PE 400** **PE 305 PE 405 PE 340 PE 451** **PE 402 PE 320 PE 450** **PE 485 PE 440 PE 132**	35
Physical Education Sports	Select one of the following **PE 117 PE 118**	1
Physical Education Elective	One PE course 300 level or above (must be approved by faculty advisor)	3
Aquatics	Select one of the following courses **PE 101 PE 102 PE 103**	3
Internship	Take the following course **PE 499**	6
	Total Major Requirements:	**60**

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.

PHYSICAL EDUCATION MINOR: ATHLETIC COACHING

Requirement	Fulfilled By:	Hrs.
First Aid	Take the following course: **HE 140** *Note: Must be certified in first aid & CPR for waiver.*	0-3
Biology	Take the following course: **BY 115**	4
Health Education	Take the following course: **HE 222**	3
Physical Education	Take the following courses: **PE 115 PE 117 PE 118 PE 201 PE 307** **PE 402 PE 407**	13
	Total Minor Requirements:	**20-23**

Course Descriptions

Physical Education (PE)

PE 100 - Sport Skill Proficiency - 1
Evaluation and assessment of students' motor skills.

PE 101 - Beginning and Advanced Beginning Swimming - 1

PE 102 - Intermediate Swimming and Swimmer Course - 1
Intermediate swimming. Students must be able to swim 25 yards using crawl stroke and elementary backstroke.

PE 103 - Lifeguard Training - 1
Must be able to continuously swim 500 yards using specified strokes of 50 yards each and perform retrieval tasks.

PE 104 - Tennis - 1
Beginning skills and rules for recreational tennis.

PE 105 - Golf - 1
Beginning skills, rules, and etiquette for recreational golf.

PE 106 - Archery - 1
Basic shooting skills, equipment, and safety issues.

PE 107 - Badminton - 1
Beginning badminton skills, rules, and etiquette.

PE 108 - Weight Training and Aerobics - 1
Basic weight training and aerobic instruction and workouts.

PE 109 - Badminton and Tennis - 1
Beginning badminton and tennis skills, rules, and etiquette for recreational activity.

PE 110 - Racquetball - 1
Beginning skills, rules, and strategy.

PE 112 - Dance and Gymnastics - 1
Provides future teachers background in planning and conduction basic dance and gymnastic instruction. Intended for physical education majors.

PE 113 - Archery and Golf - 1
Basic golf and archery organization, rules, safety, and technique.

PE 114 - Recreational Games/Outdoor Leisure Pursuits- 1
Wide array of games and pursuits which may include bowling, orienteering, pickelball, and table tennis.

PE 115 - Weight Training - 1
Basic weight training techniques and creation of personal workouts.

PE 116 - Social Dance - 1
Contemporary and classic dances including folk, line, and social.

PE 117 - Team Sports- 1
This course will enable students to learn the basic skills of eight different team sports. 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.

PE 118 - Sports Using Implements - 1
This course will enable students to learn the basic skills of different sports that require use of an implement (i.e., badminton, cricket, hockey, lacrosse, softball and tennis). Students will practice those skills to have the ability to gain skill proficiency in playing the sport as well as teaching others to play the sport.

PE 119 - Football - 1
Basic skills, rules, and strategies.

PE 120 - Volleyball - 1
Basic skills, rules, and strategies.

PE 121 - Soccer - 1
Basic skills, rules, and strategies.

PE 122 - Basketball - 1
Basic skills, rules, and strategies.

PE 123 - Softball - 1
Basic skills, rules, and strategies.

PE 124 - Beginning Whitewater Kayaking - 1
This course is designed to teach beginner paddlers to safely and enjoyable kayak on class II rivers. Students must be able to provide essential safety equipment and transportation to off-site river experience.

PE 125 - Cheerleaders and Dance Team - 1

PE 126 - Flying Disc Sport - 1
Students in this class will learn the basic skills of throwing and catching flying discs. They can incorporate these techniques in 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.

PE 129 - Aikido - 1
Series of techniques adapted to respond to a variety of attacks and to multiple attackers.

PE 130 - Scuba Diving - 1
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.

PE 131 - Aerobics - 1
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 fitness life-style, and mental focus on concentration.

PE 132 - Group Exercise Leadership - 1
Renew and application of exercise science theory to group exercise. Repertoire of exercises 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:* PE 115 and PE 131

PE 134 - The College Athlete - 3
Needs of and demands on college athletes. Time management, study skills and habits, drug use and abuse, drug testing and NCAA rules, use of trainer and training facilities, and nutritional practices. Holistic health with emphasis on keeping athletic experience in perspective. Does not count toward physical education major or minor

PE 136 - Introduction to Physical Education, Fitness, and Sport - 3
Introduction to the fields; professional organizations, career opportunities, historical development, and philosophical and scientific foundations.

PE 201 - Officiating Techniques - 2
Knowledge and practical experience in officiating various team and individual sports. Includes officiating UAB intramurals.

PE 206 - Introduction Teaching in Physical Education - 3
Research on teaching physical education and socio-cultural influences on children as learners; development of basic teaching skills. *Prerequisites:* PE 136

PE 222 - Principles and Practices of Gymnastics Teaching and Officiating- 2
Skill development, teaching various ability and experiential levels in educationally-based settings, safety techniques, selection of equipment, and techniques of officiating.

PE 224 - Principles and Practices of Volleyball Coaching and Officiating- 1
Advanced skill development, coaching at various ability and experiential levels in educationally-based settings, equipment selection, and techniques of officiating.

PE 225 - Sports Officiating: Football/Volleyball - 1
Practical framework to aspects of sports officiating.

PE 226 - Sports Officiating: Basketball/Soccer - 1
Practical framework to aspects of sports officiating.

PE 227 - Sports Officiating: Baseball/Softball - 1
Practical framework to aspects of sports officiating.

PE 300 - Organization and Administration of Physical Education - 2
Development of skills required to organize and administer physical education programs. *Prerequisites:* PE 136 and junior standing.

PE 301 - Teaching Physical Education in the Elementary School - 2
For classroom teachers. Communicating and working with physical education specialist. Developmentally appropriate activities and integration of movement activities and concepts into classroom subjects. Not for physical education majors or minors.

PE 305 - Motor Development - 3
Development of motor skills, physical fitness, and perceptual motor abilities across life span; concentration on preschool population. Laboratory experiences. EPR 214 recommended. *Prerequisites:* PE 101 and PE 136

PE 306 - Field Experiences in the Elementary School in Physical Education - 3
Practicum in elementary school physical education program. *Prerequisites:* PE 305

PE 307 - Applied Kinesiology - 3
Basic kinesiology concepts, including anatomical movements of skeletal system, basic concepts of biomechanics, application of mechanical principles of fundamental physical skills, and applications of kinesiological principles of various sports. *Prerequisites:* BY 115 with "C" or better.

PE 308 - Adapted Physical Education - 3
Prescription and planning physical activity for individuals with disabilities. *Prerequisites:* ECY 300 and PE 136 and PE 305

PE 310 - Curriculum and Methods in Elementary Physical Education - 4
Physical education in elementary schools. Nature and content of elementary physical education program, characteristics of children, curriculum development, and class organization. Laboratory experiences. *Prerequisites:* PE 305

PE 311 - Elementary School Physical Education - 3
Nature and content of a developmentally appropriate elementary physical education program. *Prerequisites:* PE 136 and PE 305

PE 320 - Fitness and Motor Skill Acquisition - 3
Developmentally appropriate physical activity (motor skills and fitness) applicable to all physical activity settings (school and recreation). *Prerequisites:* PE 136 and PE 305

PE 320L - Sports Skill Proficiency - 1
Students will practice movement skills based on seven themed topics. The students will demonstrate the ability to gain skill proficiency in these skills as well as teaching others to perform the movement skills. *Prerequisites:* PE 305
Co-requisite: PE 320 (PET majors only)

PE 322 - Techniques of Teaching Gymnastics - 3
Prerequisites: PE 111

PE 323 - Teaching Sports Skills in Secondary Schools - 3

PE 340 - Planning and Management of Fitness Facilities - 3
Management, marketing, operational leadership, evaluation, and planning principles of commercial, corporate, clinical, and community health/fitness facilities. *Prerequisites:* HE 140 and PE 136

PE 400 - Physiology of Exercise - 4
Exercise physiology, including bioenergetics, neuromuscular concepts of cardio-respiratory system, physical training, body composition, heat balance, training in females, and ergogenic aids. Laboratory experiences. *Prerequisites:* BY 116 with grade of "C" or better and PE 136 *Co-requisite:* PE 400 L

PE 400L - Physiology of Exercise Lab - 0
Co-requisite: PE 400

PE 402 - Basic Athletic Training - 2
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:* BY 115 and PE 307

PE 403 - Basic Therapeutic Management of Sports Injuries - 3
Use of modalities and rehabilitation techniques to return injured athlete to athletic participation. Practical experience in therapeutic management of sports injuries. *Prerequisites:* PE 402

PE 405 - Nutrition and Physical Activity - 3
Nutrition, nutritional quackery in sport, weight maintenance (loss and gain) through nutrition and exercise, nutrition for optimal health/physical performance, and exercise principles for weight training. *Prerequisites:* PE 305

PE 407 - Coaching Young Athletes - 3
Decision making, coaching philosophy, coaching competency standards, effective communication, pedagogy, psychology, physiology, sports medicine, and sports law.

PE 409 - Tests and Measurements in Physical Education - 3
Testing and measurement of physical skill associated with general fitness. Writing of knowledge tests. Basic statistics to analyze results of tests; methods utilized in testing sports skill and motor fitness and ability; and various parameters associated with writing of general health and knowledge tests. *Co-requisite:* PE 489

PE 440 - Principles of Conditioning the Athlete - 3
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 and PE 400

PE 450 - Physical Activity Programming for Individuals with Disabilities- 3
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. *Prerequisites:* PE 136 and PE 305

PE 451 - Physical Activity for Senior Adults- 3
Knowledge and skills needed to be a leader of exercise, dance, and fitness for older adults. *Prerequisites:* PE 132, PE 305 and PE 400

PE 460 - Clinical Exercise Physiology - 3
Knowledge and skills associated with clinical exercise physiology. *Prerequisites:* PE 400 and PE 440

PE 470 - Advanced Treatment in Athletic Training - 3
Seminar in treatment and prevention. *Prerequisites:* BY 115 and PE 307 and PE 402

PE 485 - Exercise Testing/Prescription - 3
Concepts and procedures utilized in fitness leadership roles. Supervised practical experiences. *Prerequisites:* PE 400

PE 488 - Instructional Strategies for Secondary Physical Education - 3
Design and implementation of effective instructional programs. Curriculum and instruction for secondary level; opportunities for practice using instructional strategies in school settings.

PE 489 - Instructional Strategies for Physical Education K-12 - 6
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.

PE 492 - Special Projects in Physical Education - 1 to 6
Designed as an independent study for students who wish to conduct an in-depth investigation into a physical education related topic. *Prerequisite:* permission of instructor

PE 493 - Problems in Physical Education - 3 to 6
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.

PE 495 - Elementary and Secondary Physical Education Student Teaching - 3 to 9
Observation and teaching of physical education to attain grades P-12 Alabama certification. *Prerequisite:* permission of instructor

PE 496 - Physical Education Internship Seminar - 3
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. *Co-requisite:* PE 495

PE 499 - Fitness Internship - 3 to 9
Prerequisites: PE 485

Health Education/ Physical Education (HPE)

HPE 200 - Quality of Life - 2
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 School - 3
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 or HPE 200 or HE 222

See the UAB Graduate School Catalog for descriptions of graduate courses.

Department of Leadership, Special Education, and Foundations

Chair: Lou Anne Worthington
Faculty: Allison, Collins, Dahle, Eden, Gargiulo, Goldman, Kilgo, Loder-Jackson, McKnight, Nelson, Patterson, Sanspree, Searby, Theodore, Voltz, Wang, Zimmerman-Brown

The Department of Leadership, Special Education, and Foundations offers an undergraduate major in special education that results in Alabama teacher certification in collaborative teaching (grades K-6). In addition the department offers support courses in foundations and technology for other program areas. The department also offers a master's degree in collaborative teaching (grades K-6 or 6-12) which results in an Alabama "Class A" teaching certificate. In addition, the department offers master's, educational specialist, and doctoral programs in educational leadership.

Course Descriptions
Educational Technology (EDT)

EDT 300 - Teaching and Technology - 3
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 - Workshop in Education: Technology Issues – 3

Foundations of Education (EDF)

EDF 362 - Foundations of Education I: Social, Historical, Philosophical - 3
Social context of contemporary public schools, diversity in education, and application of theory to educational practice. Active participatory field experiences. *Prerequisite or Co-requisite:* EDU 200

Special Education

The undergraduate collaborative teacher program prepares students as special education teachers to work collaboratively with general education teachers to address the needs of students with low incidence and high incidence disabilities in a variety of K-6 settings. Coursework includes an emphasis on general education curriculum, assessment, legal issues, technology, diversity, and collaboration with families and other professionals. Most courses include problem-based learning and field experiences designed to develop knowledge, skills, and positive dispositions. A variety of field-based experiences are required in school/agency settings to supplement campus coursework. The program is designed to lead to an Alabama "Class B" teaching certificate (grades K-6).

Students should contact the Office of Student Services, Room 100, Education Building, early in their studies to be certain they will meet School of Education requirements and Alabama Department of Education teacher certification requirements. Students will be assigned a faculty advisor following their admission into the Teacher Education Program.

CORE CURRICULUM FOR SPECIAL EDUCATION

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses: **EH 101 EH 102** *Note: Grade of at least B in one and C in the other required*	6
Area II: Public Speaking	Take the following course: **CM 101** *Note: C or better required*	3
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/ Humanities	Select one of the following courses: **AAS 200 CHI 102 EH 223 GN 102 MU 120 SPA 102** **ARA 101 CM 101 EH 224 GN 201 PHL 100 SPA 108** **ARA 102 CM 105 FLL 120 GN 202 PHL 115 SPA 201** **ARH 101 EH 216 FR 101 GN 204 PHL 116 SPA 202** **ARH 203 EH 217 FR 102 ITL 101 PHL 120 THR 100** **ARH 204 EH 218 FR 108 ITL 102 PHL 125 THR 105** **ARH 206 EH 221 FR 202 JPA 101 PHL 203 THR 200** **CHI 101 EH 222 GN 101 JPA 102 SPA 101** *Note: Literature Sequence Preferred*	3
Area III: Natural Science	Select one of the following courses: **BY101/102 BY 123**	4
Area III: Natural Sciences (not Biology)	Select a course from the following courses: **AST 101/AST 111 CH 115/CH 116 PH 202/PH 202L** **AST 102/AST 112 CH 117/CH 118 PH 221/PH 221L** **AST 103/AST 113 ENV 108/ ENV 109 PH 222/PH 222L** **AST 105/AST 115 ES 101/ ES 102 PHS 101** **CH 105/CH 106 ES 103/ ES 104** **CH 107/CH 108 PH 201/PH 201L**	4
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 EC 211 HY 104 ITS 101 PSC 221 SOC 245** **ANTH 106 GEO 121 HY 105 ITS 205 PY 101 WS 100** **ANTH 120 HY 101 HY 120 PSC 101 PY 212** **EC 210 HY 102 HY 121 PSC 102 SOC 100** *Note: PY 101 preferred*	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100** *Note: PY 212 preferred*	6

Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218** **HY 101 + HY 102** **EH 221 + EH 222** **HY 104 + HY 105** **EH 223 + EH 224** **HY 120 + HY 121**	-
	Total Core Curriculum Requirements:	**41**

LOWER DIVISION REQUIREMENTS FOR SPECIAL EDUCATION

Requirement	Fulfilled By:	Hrs.
Additional Laboratory Science	Select one course (with laboratory) from the following courses: **AST 101/AST 111** **AST 102/AST 112** **AST 103/AST 113** **AST 105/AST 115** **BY 101/BY 102** **BY 111/BY 112** **BY 123** **BY 124** **CH 105/CH 106** **CH 107/CH 108** **CH 115/CH 116** **CH 117/CH 118** **ENV 108/ENV 109** **ES 101/ES 102** **ES 103/ES 104** **PH 201/PH 201L** **PH 202/PH 202L** **PH 221/PH 221L** **PH 222/PH 222L** **PHS 101** **Note: Students may NOT use the same course to satisfy this requirement and the Area III science requirement.*	4
Additional Math Requirement (AGSC)	Select one of the following courses: **MA 105** **MA 107** **MA 110** **MA 126** **MA 252** **MA 106** **MA 109** **MA 125** **MA 227** **MA 260** **Note: Students may NOT use the same course to satisfy this requirement and the Area III math requirement.*	3
Additional Math Requirements	Any 100-level or higher math course not used above. **Note: MA 313 and MA 314 are preferred.*	6
Psychology	Take the following course: **PY 101** **PY 212** ** Note: These courses will apply toward this requirement as well as Area IV.*	6
	Total Lower Division Requirements:	**19**

MAJOR REQUIREMENTS FOR SPECIAL EDUCATION

Requirement	Fulfilled By:	Hrs.
Foundations & Professional Studies	Take the following courses **EDU 200** **HPE 200** **ECY 300** **EDF 362** **EPR 363** **EDT 300**	16
Teaching Field Courses	Take the following courses **ECT 303** **ECT 450** **ECT 451** **ECT 453** **ECT 454** **ECT 455** **ECT 460** **ECT 461** **ECT 470** **ECT 471** **EDR 440** **EEC 405** **EEC 406** **EPR 410** *Requires Admission to TEP*	40
Internship	Take the following courses **ECT 480** **ECT 481****	10
	Total Major Requirements:	**66**

*Students adding collaborative teaching certification to early childhood/elementary education certification must meet all early childhood, elementary education, and collaborative teaching requirements before student teaching. In place of ECT 481 Collaborative Teaching Internship K-6 students will take EDU 481 Student Teaching: Early Childhood/Elementary Education/ Collaborative Teaching.

Course Descriptions
Exceptional Children and Youth Education (ECY)

ECY 300 - Survey of Special Education - 3
Characteristics 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.

ECY 493 - Special Problems in Special Education- 1 to 3

ECY 494 - Special Topics in Education - 1 to 6
Current topics in education are presented and discussed.

Collaborative Teacher Education (ECT)

ECT 303 - Seminar in Special Education - 3
Special education process as mandated by federal and state law and best practice. Observation in local schools. *Prerequisites:* ECY 300

ECT 450 - Characteristics of Students with Special Needs - 3
Characteristics, assessment, needs, and concerns of students with high and low incidence disabilities. Issues related to abnormal and normal growth and development, community resources, inclusion, collaboration, and diversity.

ECT 451 - Assessment of Students Special Needs - 3
Assessment of children and youth throughout special education process according to federal and state regulations. Appropriate selection, administration, and interpretation of assessment instruments to determine program eligibility and intervention. Development of effective standards-based individualized education plans (IEP's) based upon formal and informal assessment results.

ECT 453 - Technology for Special Needs Students - 3
Designing instruction for students with low and high incidence disabilities using instructional, assistive, and augmentative technology. Legal aspects, accessibility, individual needs, communication technologies, assessment and IEP's, community resources, and collaboration with families and professionals.

ECT 454 - Positive Behavior Supports - 3 to 4
Preparation for work with children and youth with complex behavioral, social, and emotional problems in the classroom. Behaviorally based principles and intervention strategies. Classroom management, functional assessments, behavioral intervention plans, manifestation determinations, and implementing and evaluating intervention effects.

ECT 455 - Teaching in Inclusive Classrooms - 3
Communication and collaboration strategies for elementary-aged children in inclusive settings. Communication, roles and responsibilities, collaborative teaming, collaboration with families and paraprofessionals, current issues and trends, resources, and technology.

ECT 460 - Functional Curriculum Methods for Special Needs Students - 3
Methods and strategies for teaching elementary-aged children with low incidence disabilities. *Prerequisites:* ECT 451 and ECT 452 and ECT 453

ECT 461 - Practicum in Low-Incidence Disabilities - 1
Design and implementation of lesson plans, assessment of teaching on student learning, and development of health care plans in a field experience setting. *Co-requisite:* ECT 460

ECT 470 - Strategies for Teaching Special Needs Students - 3 to 6
Instructional content and methods. Design, implementation, and evaluation of instruction using general education curriculum. Informal assessment of teaching and learning processes. Specific strategies for teaching language, reading, written expression, mathematics, learning strategies, and study skills. *Prerequisites:* ECT 450 and ECT 451

ECT 471 - Practicum in High Incidence Disabilities - 1
Design and implementation of lesson plans and assessment of impact of teaching on student learning in a field experience setting. *Co-requisite:* ECT 470

ECT 480 - Seminar in Student Teaching - 1

ECT 481 - Student Teaching Collaborative Teacher K-6 - 9

See the UAB Graduate School Catalog for descriptions of graduate courses.

School of Engineering

Dean: Linda C. Lucas
Associate Dean: Melinda M. Lalor

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 three components: the UAB Core Curriculum as specified for engineering majors; 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 the Accreditation Board for Engineering and Technology (ABET), the national accrediting agency for engineering programs, 111 Market Place, Suite 1050; Baltimore, MD 21202-4012; telephone (410) 347-770.

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 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 and Information Engineering Management. The Doctor of Philosophy degree in Biomedical Engineering and the Doctor of Philosophy degree in Environmental Health Engineering are also offered. Two interdisciplinary Doctor of Philosophy degrees in Computer Engineering and Environmental Health Engineering are also offered. Joint Doctor of Philosophy degree programs are offered in Materials/Metallurgical Engineering, Materials Science, and Civil Engineering. Cooperative Doctor of Philosophy degree programs in Electrical Engineering and Mechanical Engineering are also offered. 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.

Students are expected to know and follow the most up-to-date set of guidelines as detailed in the current School of Engineering Guidelines for Admission, Academic Progress and Academic Conduct. A copy of this manual may be obtained from the School of Engineering Office of Academic Programs, or may be accessed on line at http://main.uab.edu/soeng/Templates/Inner.aspx?pid=114689.

Vision

To be a nationally and internationally recognized research-oriented School of Engineering, a first choice for undergraduate and graduate education.

Mission

To prepare engineering graduates to be immediately productive and able to adapt and to lead in a rapidly changing environment, and also to create and apply knowledge for the benefit of society.

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-discipline 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
E-mail: info@uab.edu

UAB Admissions Office
Hill University Center
1400 University Boulevard Room 260
Birmingham, Alabama 35294-1150
Telephone: 205-934-8221
E-mail: 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, typing, and computer science are also excellent preparatory courses.

Admission to the School of Engineering

All freshmen and transfer students who meet the University's requirements for unconditional admission as a degree seeking student (as stated in the current UAB catalog), and wish to major in engineering, are admitted as Pre-Engineering students, and are designated as Pre-Biomedical, Pre-Civil, Pre-Electrical, Pre-Materials, or Pre-Mechanical Engineering based on their intended major. Undecided students are designated as Pre-General Engineering. Students admitted to UAB, but not eligible for admission as Pre-Engineering students, may be admitted to Civil, Electrical, Materials, Mechanical or Biomedical Engineering only upon successful completion of the requirements for advancement listed below.

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 of at least 32 hours)
- Completion (C or better) of Calculus I and II
- Completion of two required science courses with appropriate labs (C or better)
- Completion of Introduction to Engineering (EGR 110 and EGR 111 or EGR 100) and Engineering Graphics (ME 102), and Computer Methods and Engineering (EGR 150)
- A UAB GPA of 2.20

Transfer students 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.

If a student is not eligible to advance into an engineering major after completing a maximum of 64 hours of course work with pre-engineering status, he or she is required to transfer to a major outside the School of Engineering.

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 (the completion of at least 32 hours)
- Completion (C or better) of Calculus I and II
- Completion of two required science courses with appropriate labs (C or better)
- Completion of Introduction to Engineering (EGR 110 and EGR 111 or EGR 100)
- Completion of Engineering Graphics (ME 102)
- A UAB GPA of 3.20 (transfer students must also have a cumulative GPA of 3.20)

Transfer students 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.

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 in the previous section) are met. Pre-biomedical or Pre-Engineering students not eligible to advance into an engineering major after completing a maximum of 64 hours of course work are required to transfer to a major outside the School of Engineering. If a student fails to change major at this time, he or she will be administratively moved to General Studies (Exploratory Studies) and may not seek readmission to Biomedical Engineering until another baccalaureate degree is earned.

Direct Admission to Biomedical Engineering

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. However, if a student has not successfully met the minimum requirements for advancement listed above after completing a maximum of 64 hours of course work, they must transfer into an engineering major for which they are qualified (as listed in the previous section), or transfer to a major outside the School of Engineering.

Transient Students

Transient students who wish to enroll in engineering courses must provide evidence that prerequisites have been satisfied through transcripts and/or grade reports. See University policy on non-degree seeking student status for additional information.

Change of Major within the School of Engineering

Students changing majors within the School of Engineering should complete a Change of School/Major Request Form in the School of Engineering Office of Academic Programs. Students must meet the requirements for advancement listed previously.

Reasonable Progress

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 Exploratory Studies. This policy applies to all courses taken after admission to UAB.

Completion of required mathematics courses and any preparatory mathematics courses that engineering students may be required to take is essential to reasonable progress toward an engineering degree. To facilitate advancement, engineering majors who take MA 107-Precalculus Algebra/Trigonometry must enroll in an appropriate math recitation (EGR 107R).

Engineering students enrolled in MA 125-Calculus I who meet any one of the following criteria must enroll in EGR 125R.

- make a C in MA 107
- repeating MA 125– Calculus I
- taking MA 125 as their first college math course with an ACT mat subscore less than 27 (SAT subscore less than 620

Engineering students enrolled in MA 126 – Calculus II who meet either of the following criteria must enroll in EGR 126R

- make a C in MA 125
- repeating MA 126– Calculus II

All students in the School of Engineering must continually make reasonable progress toward the completion of their academic programs. Reasonable progress for engineering students with the exception of students majoring in biomedical engineering is defined as maintaining a GPA of at least 2.0 in all UAB courses, and all UAB engineering courses. Biomedical engineering majors must maintain a UAB GPA of at least 3.0. A student must successfully complete two courses applicable to an engineering program within a 12-month period.

Additional information can be found in the Policy Manual for Admission, Academic Progress and Conduct. A copy of this manual may be obtained from the School of Engineering Office of Academic Programs, or may be accessed on line at http://main.uab.edu/soeng/Templates/Inner.aspx?pid=114689.

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 placed on Academic Suspension will be removed from the School of Engineering and returned to General Studies (Exploratory Studies) 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 Pre-Engineering to Civil, Electrical, Materials, Mechanical, or Biomedical Engineering (as specified in Section I) are met.
4. First-term freshmen students in Biomedical Engineering who have an institutional (UAB) GPA below a 3.0 will be placed on Academic Warning. If their institutional (UAB) GPA is not a 3.0 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 3.0 will be placed on Academic Probation. Biomedical Engineering students who do not attain an institutional (UAB) GPA of 3.0 in their next term attempted will be reclassified as Pre-General Engineering.
5. Students who have been suspended and are not eligible to advance into an engineering major after completing a maximum of 64 hours of course work may not seek readmission to the School of Engineering until another baccalaureate degree is earned.

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. 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 policy as stated in this catalog.

Minors in Engineering

A student majoring in one of the disciplines offered through the Schools of Arts and Humanities, Natural Sciences and Mathematics, or Social and Behavioral Sciences may select a minor in engineering to become familiar with topics including biomedical engineering, electrical systems, engineering materials, thermodynamic sciences, statics, and dynamics. 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 wishing to minor 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.

To satisfy the minor requirements, a minimum grade point average of 2.0 is required for all engineering coursework attempted for all programs except biomedical engineering which requires a minimum GPA of 3.0 in all 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 2.0 in UAB engineering courses attempted (biomedical engineering must maintain a GPA of 3.0).

A non-engineering major who wishes to minor in engineering may choose one of the minor programs listed here.

MINOR REQUIREMENTS FOR APPLIED MECHANICS

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A minimum GPA of 2.0 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.0 in UAB engineering courses attempted.	-
Required Engineering courses	Take all of the following courses: **CE 210 ME 215 CE 220 CE 360**	12
Civil Engineering electives	Select three of the following courses: **CE 460 CE 420 CE 461 CE 462 CE 464**	9
	Total Minor Requirements:	**21**

MINOR REQUIREMENTS FOR BIOMEDICAL ENGINEERING

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A minimum GPA of 3.0 is required for all engineering coursework. Transfer students must earn a minimum GPA of 3.0 in UAB engineering courses attempted.	-
Required Engineering courses	Take all of the following courses: **EGR 100 BME 210 BME 401**	6
Biomedical Engineering electives	Select three of the following courses: **BME 312 BME 333 BME 340** **BME 313 BME 310**	9
	Select two of the following courses: **BME 420 BME 435 BME 446 BME 461 BME 480** **BME 423 BME 442 BME 450 BME 462**	6
	Total Minor Requirements:	**21**

MINOR REQUIREMENTS FOR CIVIL ENGINEERING

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A minimum GPA of 2.0 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.0 in UAB engineering courses attempted.	-
Required Civil Engineering courses	Take all of the following courses: **CE 210 CE 220 CE 230 CE 236**	12
Civil Engineering electives	Select three of the following courses: **ME 215 CE 332 CE 345 CE 360 CE 457** **CE 395 CE 450 CE 453 CE 455**	9
	Total Minor Requirements:	**21**

MINOR REQUIREMENTS FOR ELECTRICAL ENGINEERING

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A minimum GPA of 2.0 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.0 in UAB engineering courses attempted.	-
Required Electrical Engineering Courses	Select three of the following courses: **EGR 150** **EE 233** **EE 314** **EE 351** **EE 210** **EE 300** **EE 316**	23
	Total Minor Requirements:	**23**

MINOR REQUIREMENTS FOR ENGINEERING SCIENCE

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A minimum GPA of 2.0 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.0 in UAB engineering courses attempted.	-
Required Engineering courses	Take all of the following courses: **CE 210** **EE 312** **EGR 100** **ME 241** **MSE 280**	14
Engineering electives	Select two of the following courses: **ME 215** **EE 210** **MSE 281** **ME 321**	6
	Total Minor Requirements:	**20**

MINOR REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A minimum GPA of 2.0 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.0 in UAB engineering courses attempted.	-
Required Civil Engineering courses	Take all of the following courses: **CE 236** **CE 337** **CE 430** **CE 480**	12
Engineering electives	Select three of the following courses: **CH 371** **CE 434** **CE 344** **CE 485** **CE 433** **CE 437**	9
	Total Minor Requirements:	**21**

MINOR REQUIREMENTS FOR MATERIALS ENGINEERING

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A minimum GPA of 2.0 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.0 in UAB engineering courses attempted.	-
Required Materials Engineering courses	Take all of the following courses: **MSE 280** **MSE 381** **MSE 465** **MSE 281** **MSE 380** **MSE 382**	19
Materials Engineering electives	Select one of the following courses: **MSE 413** **MSE 430** **MSE 464** **MSE 470**	3
	Total Minor Requirements:	**22**

MINOR REQUIREMENTS FOR MECHANICAL ENGINEERING - THERMAL SYSTEMS

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A minimum GPA of 2.0 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.0 in UAB engineering courses attempted.	-
Required Engineering courses	Take all of the following courses: **ME 241** **ME 242** **ME 321** **ME 322**	12
Mechanical Engineering electives	Select nine hours from courses approved by Mechanical Engineering Chair or designee.	9
	Total Minor Requirements:	**21**

MINOR REQUIREMENTS FOR MECHANICAL ENGINEERING - MECHANICAL SYSTEMS

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A minimum GPA of 2.0 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.0 in UAB engineering courses attempted.	-
Required Engineering courses	Take all of the following courses: **CE 210 CE 220 ME 370 ME 371** **ME 215**	15
Mechanical Engineering electives	Select six hours from courses approved by Mechanical Engineering Program Chair or designee.	6
	Total Minor Requirements:	**21**

MINOR REQUIREMENTS FOR SOFTWARE ENGINEERING

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A minimum GPA of 2.0 is required for all engineering coursework. Transfer students must earn a minimum GPA of 2.0 in UAB engineering courses attempted.	-
Required Electrical Engineering courses	Take all of the following courses: **EGR 150 EE 233 EE 337** **EE 210 EE 333 EE 432**	19
Electrical Engineering Electives	Select one of the following courses: **EE 433 EE 447 EE 452**	3
	Total Minor Requirements:	**22**

Office of Academic Programs

Director: Melinda M. Lalor

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 as indicated by placement tests. 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			Sem. Hrs.
EGR	110/111*	Introduction to Engineering I & II	2
EGR	150	Computer Methods and Engineering	3
ME	102	Engineering Graphics	2
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
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 Laboratory	4
Total semester hours			**33**

*Transfer students may substitute EGR 100 Introduction to Engineering for EGR 110/EGR 111.
** Except for EE. †Except for EE and ME.

Honors Programs

Honors programs are offered by all departments in the School of Engineering:

- Biomedical Engineering
- Civil, Construction and Environmental Engineering
- Electrical and Computer Engineering
- Materials Science and 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 after completion of MA 227 (Calculus III) or EGR/MA 265 (Mathematical 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 in May of each year.

Requirements

Honors programs require nine credit hours of honors coursework above the 128 hours required for a bachelors degree.

Students enroll in two one-hour courses no later than the junior year.

EGR 301 Honors Research I and
EGR 302 Honors Research II

Students enroll in one one-hour departmental seminar which can be taken at any time in their course of study.

Students complete six hours of credit in honors research

Benefits

Students who complete an engineering honors program will have earned nine additional credit hours in honors coursework. Honors research beyond the required six hours may be applied as graduate credit. 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. Melinda M. Lalor, Associate Dean of Engineering, School of Engineering, Birmingham, AL 35294-4440. Telephone (205) 934-8410

Pre-health Program Option

A number of students choose a pre-health curriculum before pursuing 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. The additional coursework for this option includes the following:

BY	123	Introductory Biology I
BY	124	Introductory Biology II
BY	271	The Biology of Microorganisms (pre-optometry only)
BY	XXX	Elective (for pre-dental only[6])
CH	235	Organic Chemistry I
CH	236	Organic Chemistry I Laboratory
CH	237	Organic Chemistry II
CH	238	Organic Chemistry II Laboratory

The undergraduate program in biomedical 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. Melinda M. Lalor
School of Engineering Pre-Health Program Coordinator
Hoehn Engineering Building
Office of Academic Programs
1075 13th Street South
Room 115G
Birmingham, Alabama 35294-4440

[6] *Other courses in psychology, sociology and computer science may be required. UAB School of Optometry requires 1 semester of psychology and 2 semesters of additional courses in any social and behavioral science. 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.*

Course Descriptions
Engineering (EGR)

EGR 100 - Introduction to Engineering - 2
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.

EGR 101 - Foundations in Engineering - 3
Engineering as a profession; engineering ethics and safety; introduction to engineering design process, team concepts, and technical presentations; educational requirements, career opportunities, and present and future societal demands on profession. College life skills.

EGR 107R - Engineer Appl of Pre-Calculus - 1
An application-based course designed to reinforce concepts from MA 107.

EGR 110 - Intro to Engineering I - 1
Introduction to profession of engineering, engineering specialties; education requirements; team work and present and future societal demands on profession. *Prerequisites: (may be taken concurrently)* MA 102 or MA 105 or MA 106 or MA 107 or MA 125

EGR 111 - Intro to Engineering II - 1
Ethics and safety; career opportunities in engineering, introduction engineering design and technical communications; present and future societal demands on profession. *Prerequisites:* EGR 110

EGR 125R - Egr Appl of Calculus I - 1
An application based course designed to reinforce concepts from MA 125.

EGR 126R - EGR Appl of Calculus II - 1
An application based course designed to reinforce concepts from MA 126.

EGR 227R - EGR App of Calculus III - 1
An application-based course designed to reinforce concepts from MA 227.

EGR 252R - EGR App of Diff Equations - 1
An application-based course designed to reinforce concepts from MA 252.

EGR 265 - Math Tools for Engr Prob Solvi - 4
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 with a C or better

EGR 301 - Honors Research I - 1
Introduces students to research methodology, ethics, data analysis, and technical communication. Students must be invited into program in order to enroll. *Prerequisites:* MA 227 or EGR 265

EGR 302 - Honors Research II - 1
Introduces honors students to research possibilities available in School of Engineering departmental honors programs. *Prerequisites:* EGR 301

EGR 400 - Special Topics in (Study Away) - 0 to 9
Independent studies in various subject and/or service areas outside the state of Alabama or the continental United States.

EGR 490 - Special Topics in (Area) - 0 to 3
Special Topics in engineering.

EGR 499 - Indust Distrib Sr Design Proj - 4
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.

CORE CURRICULUM FOR THE SCHOOL OF ENGINEERING

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses (must earn a C or better): **EH 101 EH 102**	6
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/Humanities	Select one of the following courses: **AAS 200 CHI 202 FLL 120 GN 204 PHL 115 THR 100** **ARA 101 CM 101 FLL 220 ITL 101 PHL 116 THR 105** **ARA 102 CM 105 FR 101 ITL 102 PHL 120 THR 200** **ARH 101 EH 216 FR 102 ITL 201 PHL 125** **ARH 203 EH 217 FR 201 JPA 101 PHL 203** **ARH 204 EH 218 FR 202 JPA 102 SPA 101** **ARH 206 EH 221 GN 101 JPA 201 SPA 102** **CHI 101 EH 222 GN 102 JPA 202 SPA 201** **CHI 102 EH 223 GN 201 MU 120 SPA 202** **CHI 201 EH 224 GN 202 PHL 100 SPA 111**	3
Area III: Mathematics	Take the following course: **MA 125**	4
Area III: Natural Sciences	Take both of the following courses (with laboratories): **PH 221 PH 222**	8
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 104 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 EC 211 HY 120 PSC 121 PY 212** **ANTH 106 GEO 121 HY 121 PSC 122 SOC 100** **ANTH 120 HY 101 ITS 101 PSC 212 SOC 245** **EC 210 HY 102 ITS 205 PY 101 WS 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select one of the following courses: **ANTH 101 EC 211 PSC 121 PY 212** **ANTH 106 GEO 121 PSC 122 SOC 100** **ANTH 120 ITS 101 PSC 212 SOC 245** **EC 210 ITS 205 PY 101 WS 100**	3
Sequence Requirement:	As part of Area II or Area IV, students must complete a two-courses sequence. Courses must have the same prefix and must be sequential, if possible.	-
	Total Core Curriculum Requirements:	**36**

UNIVERSITY REQUIREMENTS FOR THE SCHOOL OF ENGINEERING

Requirement	Fulfilled By:
Credit Hours	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.

Department of Biomedical Engineering

Chair: Timothy M. Wick
Faculty: Akella, Anayiotos, Dobbins, Eberhardt, Fast, Feldman, George, Gray, Jun, Lemons, Lucas, Merryman, Pollard, Rigney, Rogers, Smith, Song, Stokely, Twieg, Yao

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 instrumentation to compete in an increasingly technical medical field, as well as preparing students for graduate or professional school.

The Biomedical Engineering program is accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology, Inc. (ABET), 111 Market Place, Suite 1050; Baltimore, MD 21202-4012; telephone (410) 347-7700.

In order to advance from pre-engineering to Biomedical Engineering, students must meet all of the following minimum requirements:

- Sophomore standing (completing of at least 32 hours)
- Completion (C or better) of Calculus I and II
- Completion (C or better) of two required science courses with appropriate labs
- Completion of Introduction to Engineering (EGR 110 and EGR 111, or EGR 100)
- Completion of Engineering Graphics (ME102)
- An institutional (UAB) GPA of 3.20 (transfer students must also have an overall GPA of 3.20)

Transfer students 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.

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 in the previous section) are met. Pre –Biomedical or Pre-Engineering students not eligible to advance into an engineering major after completing a maximum of 64 hours of course work are required to transfer to a major outside the School of Engineering. If a student fails to change major at this time, he or she will be administratively moved to General Studies (Exploratory Studies) and may not seek readmission to Biomedical Engineering until another baccalaureate degree is earned.

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. However, if a student has not successfully met the minimum requirements for advancement listed above after completing a maximum of 64 hours of course work, they must transfer into an engineering major for which they are qualified (as listed in the previous section), or transfer to a major outside the School of Engineering. If a student fails to change major at this time, he or she will be administratively moved to General Studies (Exploratory Studies) and may not seek readmission to Biomedical Engineering until another baccalaureate degree is earned.

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 the degree before they may register for 300-level and 400-level BME courses. In addition, students must earn a grade of C or higher in all BME courses to graduate. Students who do not meet these requirements will be put on BME probation for one term, during which time the student must raise their institutional GPA above 3.00 or be reclassified as PEGR (PRE-General Engineering) the following term. To be readmitted to the BME program, the student must have an institutional (UAB) GPA of at least 3.20 and make a formal application for readmission.

In addition to fulfilling course prerequisites, non-BME students who wish to enroll in 300-level and 400-level BME Courses must have institutional UAB GPA of 3.00. Non-majors may not enroll in BME 498 or BME 499. Highly qualified undergraduate students may be admitted to the BME Honors Program, which offers students an opportunity to develop research skills while earning graduate credit towards a Masters of Science degree in Biomedical Engineering (MSBME) and/or a Doctor of Philosophy degree (PhD). Acceptance into the BME Honors program requires that students complete at least 32 hours (including MA 227, Calculus III or EGR 265, Mathematical Tools for Engineering Problem Solving), with at least an earned 3.4 GPA in those courses. To graduate with BME Honors, students must complete the BME undergraduate curriculum plus additional seminar courses and at least 6 credits of Honors Research, culminating in a written thesis and public defense. Students who

successfully complete the program will receive an Honors certificate at the UAB Honors Convocation Recognition and transcript will read "Graduation with Honors in Biomedical Engineering".

With the MSBME degree, employment is usually found in medical centers or hospitals, in industry with manufacturers of medical products, or with government agencies, health-care groups, or computer application groups. Doctoral candidates are usually preparing for careers in research, teaching, or advanced design and development. Prospective students for the graduate program should have earned a bachelor's degree in a field of engineering. Students with undergraduate degrees in the physical sciences, life sciences, or mathematics may be accepted into the program but will be required to demonstrate competence in engineering areas usually found in an undergraduate curriculum. Detailed admission requirements and programs of study are described in the UAB Graduate School Catalog.

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 bio-technology

Educational Objectives

Graduates of the Biomedical Engineering undergraduate program will:

1. Further their education in graduate or professional school, or gain employment in engineering and/or health related professions.
2. Pursue opportunities for professional growth and development.
3. Serve their profession and community.

LOWER DIVISION REQUIREMENTS FOR BIOMEDICAL ENGINEERING

Requirement	Fulfilled By:	Hrs.
General Chemistry Requirement	Take both of the following courses (with laboratories): **CH 115/CH 116** **CH 117/CH 118**	8
Required Courses	Take all of the following courses: **BY 123** **MA 126** **MA 260** **BY 210** **EGR 265** **BY 409**	25
	Total Lower Division Requirements:	**33**

MAJOR REQUIREMENTS FOR BIOMEDICAL ENGINEERING

Requirement	Fulfilled By:	Hrs.
Required Engineering Courses	Take all of the following courses: **CE 210** **EGR 100** **MSE 280** **EGR 150** **ME 102** **ME 215** **EE 312**	21
Required Biomedical Engineering Courses	Take all of the following courses: **BME 210** **BME 313** **BME 350** **BME 499** **BME 310** **BME 333** **BME 423** **BME 312** **BME 340** **BME 498**	30
Biomedical Engineering Electives	Select nine hours of **Biomedical Engineering (BME)** courses. **BME 408** **BME 420** **BME 442** **BME 450** **BME 480** **BME 414** **BME 423** **BME 443** **BME 461** **BME 490** **BME 417** **BME 435** **BME 446** **BME 471** **BME 495*** *Student must be enrolled in BME Honors Program	9
Engineering (EGR) Electives	[1][1] Other electives may be selected in consultation with the primary BME advisor. **CE 337** **CE 420** **ME 360** **ME 405** **MSE 484** **CE 360** **EE 411** **ME 371** **MSE 380**	-
Math/Science (MA/SCI) Electives	[1][1] Other electives may be selected in consultation with the primary BME advisor. **BY 216** **CH 235** **CH 355** **MA 360** **MA 445** **BY 261** **CH 237** **MA 261** **MA 444** **MA 453**	-
Biomedical Engineering Seminar	Take one hour of Biomedical Engineering Seminar: **BME 401**	1
	Total Major Requirements:	**61**

ADDITIONAL REQUIREMENTS FOR BIOMEDICAL ENGINEERING

Requirement	Fulfilled By:
School of Engineering Admission, Academic Progress, and Academic Conduct	Students are required to follow the most up-to-date set of guidelines as detailed in the most current School of Engineering Guidelines for Admission, Academic Progress, and Academic Conduct.
School of Engineering Reasonable Progress Requirement	All students in the Department of Biomedical Engineering must maintain an institutional UAB GPA of at least 3.0.
School of Engineering Graduation Requirements	Students must have a 3.0 GPA in all UAB coursework in order to graduate with a degree in Biomedical Engineering. All required courses failed at UAB must be repeated at UAB in order for a student to receive credit.

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

Freshman Year		Sem Hours
BY 123	Introductory Biology I	4
BY 210	Genetics	3
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
EH 101	English Composition I	3
EH 102	English Composition II	3
EGR 110/111*	Introduction to Engineering I & II	2
MA 125	Calculus I	4
MA 126	Calculus II	4
ME 102	Engineering Graphics	2
Total semester hours		**33**

Sophomore Year[1]		Sem. Hrs.
BME 210	Engineering Biology	3
CE 210	Statics	3
EE 312	Electrical Systems	3
EGR 265**	Engineering Problem Solving	4
MA 260	Linear Algebra	3
EGR 150	Engineering Computations	3
MSE 280	Engineering Materials	3
PH 221	General Physics I	3
PH 221L	General Physics I Lab	1
PH 222	General Physics II	3
PH 222L	General Physics II Lab	1
SBS I	Area IV Core Curriculum requirement (1)***	3
Total semester hours		**33**

**Transfer students may substitute EGR 100, Introduction to Engineering for EGR 110/EGR 111.*
***Students may also take MA 227-Calculus III and MA 252-Differential Equations instead of EGR 265.*
**** Please refer to the Core Curriculum as specified for engineering majors.*

[1] Supplemental sophomore career advising is offered by BME faculty in addition to the academic advising provided by the School of Engineering Office of Academic Programs (OAP). Schedule approval must be obtained through the academic advisors in the OAP until a student has earned 48 credit hours applicable to the BME degree. BME faculty advise and approve schedules for BME students in good standing with 48 or more credit hours.

Junior Year[2]		Sem. Hrs.
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
BY 409	Mammalian Physiology	4
ME 215	Dynamics	3
Elective	BME/EGR/MA/SCI	3
HFA I	Area II Core Curriculum requirement	3
Total semester hours		**31**

Senior Year		Sem. Hrs.
BME 401	BME Undergraduate Seminar[3]	1
BME 3XX/ 4XX	BME/EGR Elective[4]	3
BME 4XX	BME Elective	3
BME 4XX	BME Elective	3
BME 423	Living Systems Analysis	3
BME 498	Biomedical Product Development	3
BME 499	Senior Design	3
HFA II	Area II Core Curriculum requirement	3
HFA III	Humanities & Fine Arts	3
SBS II	Social & Behavior Science	3
SBS IV	Area IV Core Curriculum requirement	3
Total semester hours		**31**

[2] Students using this curriculum as a pre-health professional program (pre-med, pre-dental or pre-optometry) should take BY 124 Intro to Biology II, CH 235/236 Organic Chemistry I and CH 237/238 Organic Chemistry II to prepare for professional school entrance exams. Three credit hours from the organic chemistry sequence may count toward the BME degree if taken as the BME/EGR/MA/SCI elective. Additionally, BY 261 Microbiology and BY 330 Cell Biology are highly recommended.
[3] Seminars may be taken during any semester depending on the student's schedule
[4] Must be chosen from the approved list of electives and contain 3 credit hours of engineering topics.

Course Descriptions
Biomedical Engineering (BME)

BME 099 - EGR Experiential Learning
Engineering workplace experience in preparation for student's intended career.

BME 210 - Engineering Biology - 3
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 and PH 222 and (BY 210 or BY 116)

BME 310 - Biomaterials - 3
Wide range of materials used for biomedical applications. Physical, chemical and mechanical properties of biomaterials. *Prerequisites:* BME 210 and MSE 280

BME 312 - Biocomputing - 3
A survey course in practical computational techniques used in biomedical engineering. *Prerequisites:* [(MA 227 and MA 252) or EGR 265] and MA 260 and (EGR 150 or EE 134 or ME 130)

BME 330 - Biomechanics - 3
Application of solid and fluid mechanics to biomedical engineering problems, statics, dynamics, and mechanics of solids and fluids. Stress-strain of bone; viscoelasticity of tissues; Non-Newtonian behavior of blood. *Prerequisites:* CE 220 and ME 251 and [(MA 227 and MA 252) or EGR 265]

BME 333 - Biomechanics of Solids - 3
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 or CE 215) and [(MA 227 and MA 252) or EGR 265]

BME 340 - Bioimaging - 3
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 and EE 312 and [(MA 227 and MA 252) or EGR 265]

BME 350 - Biological Transport Phenomena - 3
Application of fundamental principles of momentum, mass and energy transport to establish equations that describe biological transport and reaction processes in living systems. Analysis of transport in cells, tissue, organs and design of biomedical devices. *Prerequisites:* PH 222 and BME 210 and (BY 409 or BY 116) and (ME 215 or ME 212 or CE 215) and ([(MA 227 and MA 252) or EGR 265])

BME 395 - Honors Research Practicum - 1 to 6
Research opportunities for undergraduate students in the Biomedical Engineering Honors Program. Research areas include cardiac electrophysiology, brain imaging, and biomedical implants.

BME 401 - Undergraduate BME Seminar - 1
Undergraduate seminar.

BME 405 - Biomedical Product Development - 2
Design and development issues for the medical-products industry. Consideration of the impact of legal regulatory issues and marketing issues will be addressed. Business ethics and economics will also be covered.

BME 408 - Biofluids - 3
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:* (ME 251 or BME 350) and (CE 220 or BME 333) and [(MA 227 and MA 252) or EGR 265]

BME 412 - Biomechanical Measurements - 3
Observation, measurement and analysis of basic biomechanical variables such as stress, strain, pressure and flow. Emphasis on basic experimental examples and using the computer for data acquisition, processing, analysis, and preparation of laboratory reports. *Prerequisites:* (ME 251 or BME 350) and (CE 220 or BME 333)

BME 414 - Biocomputing II - 3
Basics of computer modeling. Students will identify a specific physiological phenomenon, implement the mathematical equations to represent the phenomena in a computer model, and then test and validate the model including comparison with published experimental data. *Prerequisites:* BME 312

BME 417 - Engineering Analysis - 3
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 and MA 252) or EGR 265])

BME 420 - Implant-Tissue Interactions - 3
An overview of implant biocompatibility including tissue histology, histopathology of implant response and the regulatory process for medical devices *Prerequisites:* BME 210 and BME 310 and MSE 280

BME 423 - Living Systems Analysis - 3
Basic concepts and techniques of measurement processing and analysis of data from living systems. Statistics, analysis of variance, regression analysis. Labs include blood flow data acquisition and analysis, implant biocorrosion testing, evaluation and analysis of cell proliferation and apoptosis. *Prerequisites:* BME 210 and BME 310 and (BME 333 or CE 220) and [(MA 227 and MA 252) or EGR 265] and (BME 350)

BME 435 - Tissue Engineering - 3
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 210 and BME 310

BME 442 - Principles of Medical Imaging - 3
For medical imaging energies: principles and physics of interaction of ionizing radiation with matter, bremmstrahlung, attenuation coefficients, compton scatter, nuclear disintegration of radionuclides, and generation ofmedical radionuclides. *Prerequisites:* PH 222 and EE 312 and [(MA 227 and MA 252) or EGR 265]

BME 443 - Medical Image Processing - 3
A lab-based introduction to processing, analysis and display techniques for medical imaging. *Prerequisites:* PH 222 and EE 312 and [(MA 227 and MA 252) or EGR 265]

BME 446 - Principles of MRI - 3
Technical fundamentals of NMR imaging and applications. Physical fundamentals, MR imaging techniques, and clinical role of MR imaging. *Prerequisites:* MA 260, PH 222, and [(MA 227 and MA 252)or EGR 265]

BME 450 - Computational Neuroscience - 3
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

BME 461 - Bioelectric Phenomena - 3
Quantitative methods in electrophysiology of neural, cardiac, and skeletal muscle systems. *Prerequisites:* [(PH 222 and BME 312) or (PH 222 and [(MA 227 and MA 252) or EGR 265] and EGR 150 or ME 130 or EE 134)

BME 462 - Cardiac Electrophysiology - 3
Semi-quantitative methods in cardiac electrophysiology. Analysis of the electrocardiogram (ECG), cellular dynamics, propagation in the heart including spiral waves, and the effect of electric fields on the heart. *Prerequisites:* PH 222 and [(MA 227 and MA 252) or EGR 265]

BME 471 - Continuum Mechanics of Solids - 3
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 Almansistrain, 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 or BME 333) and ([(MA 227 and MA 252) or EGR 265]

BME 480 - Biomolecular Modelling - 3
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, nuceic acid membrane structure and function. Major techniques and their principles and algorithms for biomolecular modeling including molecular dynamics. Monte Carlo simulations, and electtrostatics. 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 and BME 210 and CH 117 and BME 417 and [(MA 227 and MA 252) or EGR 265]

BME 489 - UG EGR Research - 0
Undergraduate research experiences in biomedical engineering.

BME 490 - Special Topic in BME - 3
Special Topic in BME.

BME 491 - Individual Study in (Area) - 1 to 6
Individual Study in BME

BME 494 - Honors Research I - 1 to 3
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 and EGR 302

BME 495 - Honors Research II - 1 to 3
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 or BME 395

BME 496 - BME Honors Seminar - 1
Must be enrolled in BME Honors Program.

BME 498 - Sr Dsgn I Product Development - 3
Design and development issues for the medical-products industry. Consideration of the impact of legal regulatory issues and marketing issues will be addressed. Business ethics and economics will also be covered.

BME 499 - Senior Design II - 3
Capstone design project; interdisciplinary design team; ethics; materials selection; design process; development of proposal; project planning and scheduling; project execution and resource scheduling; communication of design; interim and final design reviews with oral and written reports. *Prerequisites:* BME 310 and BME 312 and BME 313 and (BME 333 or CE 220) and BME 498 and ME 102

Department of Civil, Construction, and Environmental Engineering

Chair: Fouad H. Fouad
Faculty: Hitchcock, Kirby, Lalor, Peters, Salama, Sisiopiku, Uddin

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 (Accreditation Board for Engineering and Technology, Inc.), 111 Market Place Suite 1050; Baltimore, MD 21202-4012; telephone: (410) 347-7700.

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

The Vision of the Department of Civil, Construction, and Environmental Engineering is to be a nationally and internationally recognized, research-oriented department; a first choice for graduate and undergraduate education.

Mission

The Mission of the Department of Civil, Construction, and Environmental Engineering is to prepare graduates to be immediately productive and able to adapt to a rapidly changing environment, and to create and apply knowledge for the benefit of society.

Educational Objectives

The Civil Engineering Undergraduate Program will prepare graduates to:

- Advance in their careers
- Continue to grow professionally
- Actively participate in professional service

LOWER DIVISION REQUIREMENTS FOR CIVIL ENGINEERING

Requirement	Fulfilled By:	Hrs.
General Chemistry Requirement	Take both of the following courses (with laboratories): **CH 115/CH 116** **CH 117/CH 118**	8
Required Courses	Take all of the following courses: **EGR 150** **EGR 110/111** **EGR 265 ME 102** **EE 312** **EH 300** **MA 126 ME 251**	25
	Total Lower Division Requirements:	**33**

MAJOR REQUIREMENTS FOR CIVIL ENGINEERING

Requirement	Fulfilled By:	Hrs.
Required Civil Engineering Courses	Take all of the following courses: **CE 210 CE 222 CE 337 CE 450 CE 395** **ME 215 CE 230 CE 344 CE 455 CE 200** **CE 220 CE 236 CE 345 CE 497 CE 430 or CE 480** **CE 221 CE 332 CE 360 CE 499**	53

Civil Engineering Electives	*Choose nine hours from **Civil Engineering (CE)** courses at the 400-level or above.* **Construction Engineering Electives** **CE 600** **CE 603** **CE 606** **CE 649** **CE 601** **CE 604** **CE 607** **CE 658** **CE 601** **CE 605** **CE 631** **CE 692** **Environmental Engineering Electives** **CE 430*** **CE 434** **CE 480*** **CE 433** **CE 437** **CE 485** **Either of these courses will fulfill required undergraduate course.* **Geotechnical Engineering Electives** *The following elective courses are recommended for students who are interested in applications in geotechnical engineering:* **CE 390** **CE 426** **CE 442** **CE 457**	9
	Structural Engineering Electives *The following elective courses are recommended for students who are interested in applications in structural engineering:* **CE 416** **CE 453** **CE 457** **CE 462** **CE 468** **CE 420** **CE 454** **CE 460** **CE 464** **CE 426** **CE 456** **CE 461** **CE 467** **Transportation Engineering Electives** *The following elective courses are recommended for students who are interested in applications in transportation engineering:* **CE 442** **CE 443** **CE 444** **CE 457**	
	Total Major Requirements:	**62**

ADDITIONAL REQUIREMENTS FOR THE SCHOOL OF ENGINEERING

Requirement	Fulfilled By:
School of Engineering Guidelines for Admission, Academic Progress, and Academic Conduct	Students are required to follow the most up-to-date set of guidelines as detailed in the most current School of Engineering Guidelines for Admission, Academic Progress, and Academic Conduct.
School of Engineering Reasonable Progress Requirement	All students in the School of Engineering must maintain an Institutional GPA of 2.0 in all UAB courses, and all UAB Engineering courses applicable to the degree.
School of Engineering Graduation Requirements	Students must have a 2.0 GPA in all UAB coursework and all UAB engineering coursework applicable to degree in order to graduate with a degree from the School of Engineering. All required courses failed at UAB must be repeated at UAB in order for a student to receive credit.

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

Freshman Year		Sem. Hrs.	Sophomore Year		Sem. Hrs.
CH 115	General Chemistry I	3	CE 200	Engineering Geology	2
CH 116	General Chemistry I Laboratory	1	CE 210	Statics	3
CH 117	General Chemistry II	3	ME 215	Dynamics	3
CH 118	General Chemistry II Laboratory	1	EGR 150	Engineering Computations	3
EGR 110/111*	Introduction to Engineering	2	ME 251	Introduction to Thermal Sciences	2
EH 101	English Composition	3	EGR 265**	Engineering Problem Solving	4
EH 102	English Composition	3	PH 222/222L	General Physics II and Laboratory	4
MA 125	Calculus I	4	CE 236/236L	Environmental Engineering and Lab	3
MA 126	Calculus II	4	Area II Core Curriculum requirement		3
ME 102	Engineering Graphics	2	Area IV Core Curriculum requirement		3
PH 221/221L	General Physics I and Laboratory	4	Area IV Core Curriculum requirement[1]		3
Area IV Core Curriculum Requirement[1]		3			
Total semester hours		**33**	**Total semester hours**		**33**

*Transfer students may substitute EGR 100, Introduction to Engineering for EGR 110/EGR 111.
** Students may also take MA 227-Calculus III and MA 252-Differential Equations instead of EGR 265.
[1]Please refer to the Core Curriculum as specified for Engineering majors.

Junior Year		Sem. Hrs.
CE 220	Mechanics of Solids	3
CE 221	Mechanics of Solids Laboratory	1
CE 222	Civil Engineering Materials Laboratory	1
CE 230	Plane Surveying	3
CE 337	Hydraulics	3
CE 344	Civil Engineering Analysis	3
CE 345	Transportation Engineering	3
CE 360	Structural Analysis	3
EE 312	Electrical Systems	3
CE 332	Soils Engineering and Lab	4
CE 395	Engineering Economics	3
Area IV Core Curriculum [1]		3
Total semester hours		**33**

Senior Year		Sem. Hrs.
CE 430	Water Supply & Drainage **or**	
CE 480	Water & Wastewater Treatment	3
CE 450	Structural Steel Design	3
CE 455	Reinforced Concrete Design	3
CE 497	Construction Engineering Management	3
CE 499	Civil Engineering Design Project	3
CE 4XX	CE Electives*	3
Area II Core Curriculum requirement [1]		3
EH 300	Engineering Communications	2
CE 4XX	Civil Engineering Elective (400 level)	3
CE 4XX	Civil Engineering Elective (400 level)	3
Total semester hours		**29**

[1] Please refer to the Core Curriculum as specified for engineering majors.
* Any UAB Civil Engineering courses not included as a requirement in Civil Engineering curriculum may be selected.

Certificate Programs in the Department of Civil, Construction, and Environmental Engineering

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 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 CE 649 or CE 658.
- 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

- Required course (3 semester hours) CE 497 Construction Project Management or equivalent.
- Select electives from the following list to earn 12 semester hours
  (Refer to UAB Graduate Catalog for course descriptions)

CE 600	Sustainable Construction	CE 606	Advanced Project Management
CE 601	Construction Methods	CE 607	Engineering Entrepreneurship
CE 602	Construction Contracting, Bidding, and Estimating	CE 631	Environmental Law
CE 603	Construction Accounting and Financial Management	CE 649	Engineering Liability
CE 604	International Construction Contracts and Law	CE 658	Engineering Management
CE 605	Project Management	CE 691	Civil Engineering Capstone

Certificate in Environmental Engineering

- Required course (3 semester hours): CE 236 Introduction to Environmental Engineering or equivalent:
- Select electives from the following list to earn 12 semester hours

CE 530 Water Supply and Drainage Design
CE 533 Solid and Hazardous Wastes
CE 534 Air Quality Modeling and Monitoring
CE 537 Environmental Experimental Design and Field Sampling
CE 580 Introduction to Water and Wastewater Treatment
CE 631 Environmental Law*
CE 632 Industrial Water 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 644 Civil Engineering Analysis II
CE 649 Engineering Liability*
CE 658 Engineering Management*
CE 681 Environmental Chemistry
CE 682 Water Treatment Engineering
CE 683 Water and Wastewater Treatment Unit Processes
CE 685 Engineering Hydrology
CE 686 Engineering Hydrogeology
CE 687 Stormwater Detention Pond Design

*Only one course listed with an asterisk may be applied to this certificate.
(Refer to UAB Graduate Catalog for course descriptions.)

Certificate in Geotechnical Engineering

- Required course (3 semester hours): CE 332 Soil Engineering or equivalent
- Select electives from the following list to earn 12 semester hours

CE 526 Foundation Engineering
CE 557 Highway Materials and Construction
CE 644 Civil Engineering Analysis
CE 649 Engineering Liability*
CE 658 Engineering Management*
CE 690 Special Topics in Advanced Geotechnical Engineering

*Only one course listed with an asterisk may be applied to this certificate.
(Refer to UAB Graduate Catalog for course descriptions.)

Certificate in Structural Engineering

- Required course (3 semester hours): CE 360 Structural Analysis or equivalent:
- Select electives from the following list to earn 12 semester hours

Structural Analysis Electives (Minimum 3 hours)

CE 516 Mechanical Vibrations
CE 520 Advanced Mechanics
CE 561 Introduction to the Finite Element Method
CE 564 Structural Dynamics
CE 612 Theory of Elasticity
CE 615 Theory of Elastic Stability
CE 617 Theory of Plates and Shells
CE 660 Structural Mechanics
CE 662 Advanced Structural Analysis
CE 663 Finite Element Methods

Structural Design Electives (Minimum 3 hours)

CE 553 Design of Wood Stuctures
CE 554 Design of Masonry Structures
CE 556 Prestressed Concrete Design
CE 567 Wind and Seismic Loads
CE 568 Bridge Engineering
CE 626 Foundation Engineering
CE 650 Advanced Structural Steel Design
CE 655 Advanced Reinforced Concrete

Other Electives (Maximum 3 hours)

CE 557 Concrete Technology*
CE 642 Highway Materials and Construction*
CE 649 Engineering Liability*
CE 658 Engineering Management*

*Only one course listed with an asterisk may be applied to this certificate.
(Refer to UAB Graduate Catalog for course descriptions.)

Certificate in Transportation Engineering

- Required course (3 semester hours): CE 345 Transportation Engineering or equivalent
- Select electives from the following list to earn 12 semester hours

CE 557	Concrete Technology	CE 643	Pavement Design and Construction
CE 568	Bridge Engineering	CE 644	Civil Engineering Analyses II
CE 622	Traffic Flow Theory	CE 646	Traffic Engineering Operations
CE 623	Non-Motorized Transportation Design and Planning	CE 647	Engineering Optimization and Modeling
CE 624	Simulation Models for Transportation Applications	CE 648	Urban and Transportation Planning
CE 625	Intelligent Transportation Systems*	CE 649	Engineering Liability*
CE 642	Highway Materials and Construction	CE 658	Engineering Management*

*Only one course listed with an asterisk may be applied to this certificate.
(Refer to UAB Graduate Catalog for course descriptions.)

Course Descriptions
Civil Engineering (CE)

CE 099 - EGR Experiential Learning
Engineering workplace experience in preparation for the student's intended career.

CE 120 - Engineering the Environment - 3
Introduction to environmental engineering issues, structural engineering, and other civil engineering disciplines. Laboratories conducted to compliment lectures and introduce practical hands-on research aspects of civil engineering. Not available for credit toward engineering major.

CE 200 - Engineering Geology - 2
The solid earth, the nature of the earth s crust and surficial processes.

CE 210 - Statics - 3
Newton's 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. Prerequisites: MA 126 and PH 221 and [(EGR 110 and EGR 1110 or EGR 100]

CE 220 - Mechanics of Solids - 3
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 or CE 212 or ME 212

CE 221 - Mechanics of Solids Lab - 1
Strain gage installation and applications. Standard tensile, torsion, bending, and column tests. Measurement of forces, displacements, strains, and other variables. *Prerequisites:* CE 220

CE 222 - Civil Eng. Materials Lab - 1
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

CE 230 - Plane Surveying - 3
Care and use of surveying instruments, surveying methods, error theory, traversing, stadia, mapping techniques, circular and parabolic curves, areas, and volumes. *Prerequisites:* MA 125

CE 230L - Plane Surveying Lab - 0
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.

CE 236 - Environmental Engineering - 3
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. *Prerequisites:* CH 117 and MA 125

CE 236L - Environmental Engineering Lab - 0
Laboratory equipment and methods. Biological, chemical, and physical tests to determine characteristics of water and wastewater.

CE 332 - Soil Engineering - 4
Soil identification and properties, stress concepts, permeability settlement analysis, soil compaction, bearing capacity, shear strength of soil. *Prerequisites:* CE 200 and CE 220

CE 332L - Soil Engineering Lab - 0
Soil classification, strength tests, permability and consolidation tests.

CE 337 - Hydraulics - 3
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

CE 344 - Civil Engineering Analysis I - 3
Inspection and treatment of data using exploratory data analysis. Introduction to probability. Basic data analysis using comparisons and regression. Quality control and reliability analyses. *Prerequisites:* MA 126

CE 345 - Transportation Engineering - 3
Function, influence, characteristics, and operation of transportation systems and facilities.

CE 360 - Structural Analysis - 3
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

CE 390 - Computer Methods in CE - 3
Selected electronic computer techniques for solution of problems in geotechnical engineering, structural engineering, surveying, and transportation. *Prerequisites:* [(MA 227 and MA 252) or EGR 265]

CE 395 - Engineering Economics - 3
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

CE 410 - FE Review for Civil Engr - 1
Review concepts of the engineering core and civil engineering in preparation for the Fundamentals of Engineering (FE) exam.

CE 420 - Advanced Mechanics - 3
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

CE 421 - Transportation Egr Seminar - 1
Seminar focusing on student research and guest presentations of various topics of interest to transportation engineering students.

CE 426 - Foundation in Engineering - 3
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 laboratory tests; estimation of stresses in soil masses; lateral resistance of piles and pile group; retaining walls, sheet piles, and coffer-dams. *Prerequisites:* CE 332

CE 430 - Water Supply/Drainage Design - 3
Water requirements; wastewater characteristics. Hydraulics and design of sewers; distribution and reuse of water. Development of water supplies; design considerations. *Prerequisites:* CE 337

CE 433 - Solid and Hazardous Wastes Mgt - 3
Overview of waste characterizations, regulations, and management options.

CE 434 - Air Qual Modeling/Monitoring - 3
Atmospheric pollutant effects, reactions and sources. Air dispersion modeling. Ambient monitoring. *Prerequisites:* ME 251

CE 437 - Envir Exper Desgn Fld Sampling - 3
Experimental design, sensitivity analyses, water sampling, and flow monitoring. Receiving water chemical reactions. Field investigations. Lecture and laboratory. *Prerequisites:* CE 344

CE 437L - Envir Experimental Design Lab - 0
Lab experiences for environmental experimental design and field sampling.

CE 440 - CE Honors Research - 3
Departmental honors students work closely with faculty researchers and graduate students in departmental concentration specialties to develop research skills.

CE 441 - CE Honors Seminar - 1
Seminar focusing on student research and guest presentations of various topics of interest to civil and environmental engineering students.

CE 442 - Hwy Materials and Construction - 3
Properties of materials used in highway construction. Construction methods and management. *Prerequisites:* CE 332 and CE 345

CE 443 - Pavement Design and Const - 3
Analysis of stresses and strains in pavement systems. Design and construction of flexible and rigid pavements, base courses, and sub-grades. Effects of loading on pavement life. *Prerequisites:* CE 345

CE 444 - Civil Engineering Analysis II - 3
Sampling and experimental design. Hypothesis testing, decision analysis, multiple regression analysis; nonparametric methods, Analysis of experimental data in civil engineering research; regression, experimental design and non-parametrical analysis. *Prerequisites:* CE 344

CE 447 - Engr Optimization and Modeling - 3
Mathematical techniques for analysis of systems. Project scheduling, optimization, and simulation applied to civil engineering system analysis. *Prerequisites:* CE 344 and (EE 134 or ME 130 or EGR 150)

CE 450 - Structural Steel Design - 3
Tension members, columns, beams, and beam columns. Simple connections. Load Resistance Factor Design (LRFD) approaches. *Prerequisites:* CE 360

CE 453 - Design of Wood Structures - 3
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

CE 455 - Reinforced Concrete Design - 3
Beams, slabs, columns, and beam columns. Frames and footings. *Prerequisites:* CE 360

CE 456 - Prestressed Concrete Design - 3
Principles and concepts of design in pre-stressed concrete including elastic and ultimate strength analyses for flexural, shear, bond, and deflection. Principles of concordancy and linear transformation for indeterminate pre-stressed structures. *Prerequisites:* CE 455

CE 457 - Concrete Technology - 3
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

CE 460 - Structural Mechanics - 3
Elastic beam deflections, beam columns, lateral torsional buckling, column stability, plastic design, plate bending, and yield line theory. *Prerequisites:* CE 360

CE 461 - Intro to Finite Element Method - 3
Concepts and applications of finite element method. Development and application of basic finite elements. Software use. *Prerequisites:* CE 220

CE 462 - Advanced Structural Analysis - 3
Analysis of indeterminate structures utilizing both classical and matrix methods. Use of large-scale computer programs. *Prerequisites:* CE 360

CE 464 - Structural Dynamics - 3
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 and (ME 215 or CE 215 or ME 212 or CE 212)

CE 467 - Wind and Seismic Loads - 3
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

CE 468 - Bridge Engineering - 3
Bridge loads, steel beam bridges, composite beam bridges, bridge bearings, reinforced and pre-stressed concrete slab and T-beam bridges, bridge evaluations and ratings, and upgrade methodologies; computer applications. *Prerequisites:* CE 450 and CE 455

CE 480 - Intro Water and Wastewtr Trtmt - 3
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

CE 485 - Engineering Hydrology - 3
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

CE 489 - UG EGR Research
Undergraduate research experiences in civil, construction and/or environmental engineering.

CE 490 - Special Topics in (Area) - 3
Special Topics in (Area)

CE 491 - Individual Study in (Area) - 3
Individual Study in (Area)

CE 496 - Construction Meth & Technology - 3
Provide students with a fundamental understanding of the construction methods employed to bring the concepts to physical reality. The focus areas include earth moving, heavy construction, building construction, and process plants. Students will understand the planning and development of equipment, materials, labor, and subcontractors required in the construction process. The course will be strengthened with guest lectures from industry practitioners.

CE 497 - Construction Engr Management - 3
Concepts of design of construction process; formwork, scaffolds, etc. May include field trips to sites of construction in progress. Guest speakers from leaders in the construction industry to cover construction related topics. *Prerequisites:* CE 395

CE 499 - Civil Engr Design Project - 3
Team design of project. Normally taken during last term before graduation. Includes Fundamentals of Engineering Review taught as a concurrent laboratory. (3.0 ED) *Prerequisites:* CE 332 and CE 337 and CE 345 and (CE 450 or CE 455) and (CE 430 or CE 480) and CE 497

Department of Electrical and Computer Engineering

Interim Chair: Gregg L. Vaughn
Faculty: Callahan, Green, Grimes, Franklin, Jannett, Marstrander, Nelson, Tanik

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 the Accreditation Board for Engineering and Technology (ABET); 111 Market Place, Suite 1050; Baltimore, MD 210202-4012; telephone (410) 347-7700. 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) or six (EE 498 and EE 499) semester hours of coursework.

Vision
The Vision of the Department of Electrical and Computer Engineering 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

A. succeed in a **career** in electrical engineering or in further education,
B. approach problem-solving with an **engineering** mind set, and
C. grow **professionally**.

LOWER DIVISION REQUIREMENTS FOR ELECTRICAL ENGINEERING

Requirement	Fulfilled By:	Hrs.
General Chemistry Requirement	Take both of the following courses (with laboratories): **CH 115/CH 116**	4
Required Courses	Take all of the following courses: **CE 210 EGR 100 EGR 265 ME 251** **EGR 150 MA 126 ME 102**	23
	Total Lower Division Requirements:	**27**

MAJOR REQUIREMENTS FOR ELECTRICAL ENGINEERING

Requirement	Fulfilled By:	Hrs.
Required Electrical Engineering Courses	Take all of the following courses: **EE 210 EE 300 EE 333 EE 361 EE 485** **EE 233 EE 316 EE 341 EE 426 EE 498 and EE 499 or** **EE 254 EE 318 EE 351 EE 431 EE 497 +EE Elective**	53
Electrical Engineering Electives	Choose 12 hours of **Electrical Engineering (EE)** courses.	9
	Total Major Requirements:	**65**

ADDITIONAL REQUIREMENTS FOR THE SCHOOL OF ENGINEERING

Requirement	Fulfilled By:
School of Engineering Guidelines for Admission, Academic Progress, and Academic Conduct	Students are required to follow the most up-to-date set of guidelines as detailed in the most current School of Engineering Guidelines for Admission, Academic Progress, and Academic Conduct.
School of Engineering Reasonable Progress Requirement	All students in the School of Engineering must maintain a Institutional GPA of 2.0 in all UAB courses and all UAB Engineering courses applicable to the degree.
School of Engineering Graduation Requirements	Students must have a 2.0 GPA in all UAB coursework and all UAB engineering coursework applicable to degree in order to graduate with a degree from the School of Engineering. All required courses failed at UAB must be repeated at UAB in order for a student to receive credit.

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

Freshman Year		Sem. Hrs.
CH 115	Chemistry I	3
CH 116	Chemistry I Laboratory	1
EGR 150	Engineering Computations	3
EE 210	Digital Logic	3
EGR 110/111*	Introduction to Engineering I & II	2
EH 101	English Composition I	3
EH 102	English Composition II	3
ME 102	Engineering Graphics	2
MA 125	Calculus I	4
MA 126	Calculus II	4
PH 221/221L	Physics I and Laboratory	4
Total semester hours		**32**

Sophomore Year		Sem. Hrs.
EE 233	Engineering Programming Methods	3
EE 254	Applied Numerical Methods	3
EE 314	Electrical Circuits	3
EE 316	Electrical Networks	4
CE 210	Statics	3
ME 251	Introduction to Thermal Sciences	2
EGR 265**	Engineering Problem Solving	4
PH 222/222L	Physics II and Laboratory	4
Area II Core Curriculum requirement [1]		3
Area IV Core Curriculum requirement [1]		3
Total semester hours		**32**

Junior Year		Sem. Hrs.	Senior Year		Sem. Hrs.
EE 300	Engineering Problem Solving	3	EE 421	Communication Systems	3
EE 318	Methods of Systems Analysis	3	EE 426	Control Systems	3
EE 333	Engineering Programming Using Objects	3	EE 431	Analog Integrated Electronics	4
EE 337	Introduction to Microprocessors	4	EE 497	Team Design Project or	
EE 341	Electromagnetics	3	EE 499	Team Design Project II	3
EE 351	Electronics	4	EE 4XX	Upper-level elective or EE 498	3
EE 361	Machinery I	4	EE 4XX	Upper-level elective[11]	3
EE 485	Engineering Operations	3	EE 4XX	Upper-level elective[12]	3
Area II Core Curriculum requirement[1]		3	EE 4XX	Upper-level elective[13]	3
Area IV Core Curriculum requirement[1]		3	Area II Core Curriculum requirement [1]		3
			Area IV Core Curriculum requirement [1]		3
Total semester hours		**33**	**Total semester hours**		30

*Transfer students may substitute EGR 100, Introduction to Engineering for EGR 110/EGR 111.
** Students may also take MA 227-Calculus III and MA 252-Differential Equations instead of EGR 265 and EE 254.
[1]Please refer to the Core Curriculum as specified for Engineering majors on page 255 of this catalog.
[11,12,13] Students may select any EE 4XX course that is not required.

Course Descriptions
Electrical Engineering (EE)

EE 099 - EGR Experiential Learning
Engineering workplace experience in preparation for the student's intended career.

EE 210 - Digital Logic - 3
Number systems and codes. Boolean algebra and combinational logic. Arithmetic and logical circuits. Memory elements. Synchronous and asynchronous sequential logic. Lecture and computer laboratory.

EE 233 - Engineering Programming Method - 3
Program design techniques, data structures, coding and documentation standards, product design, life cycle, data structures, file I/O, testing, database, software tools, and features of department computers. Students design, code, and test medium-size programs individually. Lecture and computer laboratory. *Prerequisites:* (MA 106 or MA 107 or MA 125) and (EGR 150 or EE 134 or ME 130)

EE 254 - Applied Numerical Methods - 3
Selected mathematical and computational topics appropriate to the numerical solution of engineering problems. *Prerequisites: (*MA 227 and MA 252) or EGR 265

EE 300 - Engineering Problem Solving II - 3
Selected mathematical and computational topics appropriate to solution of engineering problems including probability and statistics. *Prerequisites:* MA 125 and MA 126 and [(MA 227 and MA 252) or EGR 265]

EE 305 - Fund of Electrical Engineering - 2
Survey of topics fundamental to field of electrical engineering. For non-engineering majors. Not available for credit toward engineering major. *Prerequisites:* MA 109

EE 312 - Electrical Systems - 3
Introduction to DC circuit analysis, AC steady-state analysis, and AC polyphase machines. Not available for credit toward an electrical engineering major. *Prerequisites:* MA 125 and MA 126 and PH 222

EE 314 - Electrical Circuits - 3
Application of circuit analysis techniques to DC and AC circuits; circuit solution using PSpice. *Prerequisites:* MA 126

EE 316 - Electrical Networks - 4
Polyphase circuits, analysis of circuits using classical differential/integral techniques and Laplace Transforms; two-port network parameters. Lecture and laboratory. *Prerequisites:* MA 125 and MA 126 and [(MA 227 and MA 252) or EGR 265] EE 314

EE 316L - Electrical Networks Lab - 0
Companion lab for EE 316.

EE 318 - Methods of System Analysis - 3
Signal analysis, system representations, and system simulation. Transient responses; discrete-time systems. Application of Laplace and Z transform methods to systems. *Prerequisites:* EE 300 and EE 314 and EE 316 and ([(MA 227 and MA 252) or EGR 265]

EE 333 - Engr Programming using Objects - 3
Software development emphasizing object-oriented methods. Students design and develop programs using existing classes and create their own classes using Java programming language. Java graphical user interface framework will be used as extensive example of Object Oriented System. *Prerequisites:* EE 233

EE 337 - Intro to Microprocessors - 4
Application of microcomputers to engineering problems such as data acquisition and control. Topics include CPU architecture and assembly language, serial and parallel I/O devices, system architecture, and bus interfacing. Lecture and laboratory. *Prerequisites:* EE 210 and EE 233

EE 337L - Intro to Microprocessors Lab - 0
Micros I Lab

EE 341 - Electromagnetics - 3
Mathematical techniques used to solve electromagnetic problems. Concepts fundamental to dynamic electromagnetic problems. Application of concepts to static problems. Techniques used to solve dynamic problems. Transmission, reflection, and refraction of uniform plane waves. Transient analysis, steady-state analysis, and tuning of transmission lines for harmonic waves. *Prerequisites:* PH 222 and EE 300 and EE 314 and EE 316 and [(MA 227 and MA 252) or EGR 265]

EE 351 - Electronics - 4
Solid-state electronics. Bipolar junction and field-effect transistor (FET) properties; biasing and Q point determination in elementary amplifier circuits; frequency response; single and multistage amplified circuits. Lecture and laboratory. *Prerequisites:* EE 210 and EE 316

EE 351L - Electronics Lab - 0
Lab component for Electronics.

EE 361L - Machinery I Lab - 0
Lab component of Machinery I.

EE 411 - Facilities Engineering - 3
General engineering project planning, apply codes and standards, preliminary design, economic forecasting, environmental planning reports, site selection, population displacement, cash flow, specifications plans.

EE 418 - Wireless Communications - 3
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 and EE 314 and EE 316 and EE 318

EE 421 - Communication Systems - 3
Signal and system representation in time and frequency domains. Fourier transform and spectral density; amplitude and angle modulation; sampling and pulse modulation. Lecture and laboratory. *Prerequisites:* EE 300 and EE 314 and EE 316 and EE 318

EE 423 - Digital Signal Processing - 3
Digital filter analysis and design. FFT algorithms. Applications of DSPs in engineering problems such as data acquisition, control, and I/O. Lecture and computer laboratory. *Prerequisites:* EE 300 and EE 314 and EE 316 and EE 318

EE 426 - Control Systems - 3
Theory of linear, continuous-feedback control systems using complex frequency techniques. Block diagram manipulation, performance measures, stability, root locus, construction and locating roots (positive and negative feedback), gain adjustment, and altering dynamic properties. Discrete transforms using z-transform and z-plane root locus. *Prerequisites:* EE 300 and EE 314 and EE 316 and EE 318 and (CE 210 or ME 212 or CE 212)

EE 427 - Industrial Control - 3
Power control devices and applications. Relay logic and translation to other forms. Programmable logic controllers. Proportional-integral-derivative (PID) control techniques. Modern laboratory instrumentation and man-machine interface software. *Prerequisites:* EE 233 and EE 314 and EE 316 and EE 318 and EE 351

EE 431 - Analog Integrated Electronics - 4
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. *Prerequisites:* EE 210 and EE 300 and EE 314 and EE 316 and EE 318 and EE 351

EE 432 - Intro to Computer Networking - 3
Computer networking and engineering standards related to networking. Network hardware, Ethernet, token ring, ISDN, ATM, networking protocols including TCP/IP protocol suite. Internetworking, LANS, and typical applications. *Prerequisites:* (EGR 150 or ME 130 or EE 134) and EE 210

EE 433 - Engineering Software Solutions - 3
Project planning, specification, design, implementation, and testing of software solutions for engineers. Waterfall model of development and agile development methods will be covered. Lecture and computer laboratory. Four projects. *Prerequisites:* (EGR 150 or ME 130 or EE 134) and EE 233 and EE 333

EE 437 - Microprocessor Applications - 3
Applications of microprocessors in engineering problems such as data acquisitions control, and real-time input/output. *Prerequisites:* EE 210 and EE 233 and EE 337

EE 438 - Intermediate Microprocessors - 3
Advanced microprocessor topics including cache design, pipelining, superscalar architecture, design of control units, microcoding, and parallel processors. Comparison of advanced contemporary microprocessors from Intel and IBM. *Prerequisites:* EE 210 and EE 233 and EE 337

EE 442 - Computer Networking Protocols - 3
Hands-on laboratory course covering topics in networking. TCP/IP, routing, LAN configurations, windows and Linux configurations, protocol analysis. *Prerequisites:* (EGR 150 or ME 130 or EE 134) and EE 210 and EE 432

EE 446 - IC Projects Information Age - 3
In-depth group and individual projects in industrial control with emphasis on information systems applications. Projects in areas such as programmable logic controllers, distributed control systems, factory automation, man-machine interface software and hardware, intelligent control, real-time systems, database applications, and distributed computing. *Prerequisites:* EE 427

EE 447 - Inter/Intranet App Development - 3
Development of applications and models using Internet/Intranet technologies such as Java, JavaScript, conferencing systems, Dynamic HTML, server side scripting, multi-tier models, and XML. Lecture and laboratory. *Prerequisites:* EE 233

EE 448 - Software Engineering Projects - 3
Builds on the Object-Oriented concepts covered in EE 333. Coverage for Unified Modeling Language is expanded and design patterns are incorporated. Provides a project environment for implementation of systems using Object-Oriented techniques. *Prerequisites:* EE 233 and EE 333

EE 458 - Medical Instrumentation - 3
Fundamental operating principles, applications, and design of electronic instrumentation used in measurement of physiological parameters. Class design project. *Prerequisites:* EE 314 and EE 316 and EE 351

EE 461 - Machinery II - 3
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 316 and EE 361

EE 471 - Power Systems I - 3
Components of power systems. Performance of modern interconnected power system under normal and abnormal conditions. Calculation of inductive and capacitive reactances of three-phase transmission lines in steady state. *Prerequisites:* EE 314 and EE 316 and EE 361

EE 472 - Power Systems II - 3
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. Power system design project required. *Prerequisites:* EE 314 and EE 316 and EE 361 and EE 471

EE 473 - Protective Relaying Power Sys - 3
Operating principles of protective relays. Protection of transmission lines, generators, motors, transformers, and buses. *Prerequisites:* EE 314 and EE 316 and EE 361

EE 474 - Industrial Power Systems - 3
One-line diagrams/load analysis. Medium and low voltage feeder design, voltage regulation, and short-circuit analysis. Selection of protective devices. Grounding and lightning protection. Term project. *Prerequisites:* EE 471

EE 485 - Engineering Operations - 3
Economic, procedural, planning, and control aspects of engineering projects.

EE 489 - UG EGR Research
Undergraduate research experiences in electrical and/or computer engineering.

EE 490 - Special Topics in (Area) - 1 to 3
Topic assigned with course.

EE 491 - Special Problems in (Area) - 1 to 3
Topic assigned with course.

EE 492 - Honors Research I - 1 to 3
Departmental honor students conduct background research under the direction of faculty researchers and graduate students. *Prerequisites:* EGR 301 and EGR 302

EE 493 - Honors Research II - 1 to 3
Departmental honors students work closely with faculty researchers and graduate students in departmental concentration specialties to develop research skills. *Prerequisites:* EGR 301 and EGR 302

EE 497 - Team Design Project - 3
Senior Design Team Project Course. Analysis, design, and implementation of assigned team project, including design documentation and design review. Must have an approved Application for Degree on file and must be in final year of his/her program. *Prerequisites:* (EGR 150 or ME 130 or EE 134) and EE 210 and EE 233 and EE 300 and EE 314 and EE 316 and EE 318 and EE 333 and EE 337 and EE 341 and EE 351 and EE 361 and EE 421 and EE 426 and EE 431 and EE 485

EE 498 - Team Design Project I - 3
Senior Design Team Project Course Part I. Analysis and design of assigned team project, including design documentation and design review. Must have an approved Application for Degree on file and must be in final year of his/her program. *Prerequisites:* (EGR 150 or ME 130 or EE 134) and EE 210 and EE 233 and EE 300 and EE 314 and EE 316 and EE 318 and EE 337 and EE 351 and EE 426 and EE 485

EE 499 - Team Design Project II - 3
Senior Design Project Course Part II. 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:* (EGR 150 or ME 130 or EE 134) and EE 210 and EE 233 and EE 300 and EE 314 and EE 316 and EE 318 and EE 333 and EE 337 and EE 341 and EE 351 and EE 361 and EE 421 and EE 426 and EE 431 and EE 485 and EE 498

Department of Materials Science and Engineering

Chair: J. Barry Andrews
Faculty: Chawla, Dean, Druschitz, Dwyer, Griffin, Janowski, Patterson, Scripa, Vaidya

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. Through the development of this understanding, the student learns how to control the properties of materials through various industrial manufacturing processes, 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 of Accreditation Board for Engineering and Technology, Inc. (ABET), 111 Market Place, Suite 1050; Baltimore, MD 21202-4012; telephone (410) 347-7700. 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. 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 a 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:

1. Succeed in materials engineering and related professional positions,
2. Continue to develop intellectually and professionally,
3. Interact and communicate well with individuals of varied backgrounds.

LOWER DIVISION REQUIREMENTS FOR MATERIALS ENGINEERING

Requirement	Fulfilled By:	Hrs.
General Chemistry Requirement	Take both of the following courses (with laboratories): **CH 115/CH 116 CH 117/CH 118**	8
Engineering Computation	Select one of the following courses: **EE 134 EGR 150**	3
Engineering/Mathematics/ Science Electives	Select six hours from Engineering, **Computer Science (CS)**, or Natural Sciences as approved by the Department Chair or designee.	6
Required Courses	Take all of the following courses: **CE 210 CE 344 EGR 110/111 EGR 265 ME 251** **CE 220 EE 312 MA 126 ME 102**	27
	Total Lower Division Requirements:	**44**

MAJOR REQUIREMENTS FOR MATERIALS ENGINEERING

Requirement	Fulfilled By:	Hrs.
Required Materials Engineering Courses	Take all of the following courses: **MSE 280 MSE 381 MSE 430 MSE 498** **MSE 281 MSE 382 MSE 464 MSE 499** **MSE 310 MSE 410 MSE 470 MSE 401** **MSE 380 MSE 413 MSE 484 MSE 465**	45
Materials Engineering Elective	Choose three hours of **Materials Science and Engineering (MSE)** courses.	3
Biomaterials	Students who wish to study applications in biomaterials must comply with the curriculum for BSMtE, except that appropriate electives are selected in consultation with the MSE advisor	
	Total Major Requirements:	**48**

ADDITIONAL REQUIREMENTS FOR THE SCHOOL OF ENGINEERING

Requirement	Fulfilled By:
School of Engineering Guidelines for Admission, Academic Progress, and Academic Conduct	Students are required to follow the most up-to-date set of guidelines as detailed in the most current School of Engineering Guidelines for Admission, Academic Progress, and Academic Conduct.
School of Engineering Reasonable Progress Requirement	All students in the School of Engineering must maintain an institutional GPA of 2.0 in all UAB courses and all UAB Engineering courses applicable to the degree.
School of Engineering Graduation Requirements	Students must have a 2.0 GPA in all UAB coursework and all UAB engineering coursework applicable to degree in order to graduate with a degree from the School of Engineering. All required courses failed at UAB must be repeated at UAB in order for a student to receive credit.

Curriculum for the Bachelor of Science in Materials Engineering (BSMtE)

Freshman Year		Sem. Hrs.
CH 115	Chemistry I	3
CH 116	Chemistry I Laboratory	1
CH 117	Chemistry II	3
CH 118	Chemistry II Laboratory	1
EGR 110/111*	Introduction to Engineering I & II	2
EH 101	English Composition I	3
EH 102	English Composition II	3
MA 125	Calculus I	4
MA 126	Calculus II	4
ME 102	Engineering Graphics	2
EGR 150	Engineering Computations	3
PH 221/221L	General Physics I and Laboratory	4
Total semester hours		**33**

Sophomore Year		Sem. Hrs.
CE 210	Statics	3
CE 220	Mechanics of Solids	3
EE 312	Electrical Systems	3
EGR 265 **	Engineering Problem Solving	4
ME 251	Introduction to Thermal Sciences	2
MSE 280	Engineering Materials	3
MSE 281	Physical Materials I	3
PH 222/222L	General Physics II and Laboratory	4
Area II Core Curriculum requirement [1]		3
Area IV Core Curriculum requirement [1]		3
Total semester hours		**31**

Junior Year		Sem. Hrs.
CE 344	Civil Engineering Analysis I	3
MSE 310	Materials Engineering Laboratory II	2
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 465	Characterization of Materials	4
MSE 470	Ceramic Materials	3
Mathematics Science or Engineering Elective [17]		3
Area II Core Curriculum requirement [1] [17}		3
Area IV Core Curriculum requirement [1]		3
Total semester hours		**33**

Senior Year		Sem. Hrs.
MSE 410	Materials Engineering Laboratory III	2
MSE 413	Composite Materials	3
MSE 430	Polymeric Materials	3
MSE 464	Metals and Alloys	3
MSE 484	Electronic, Magnetic, and Thermal Properties of Materials	3
MSE 498	Design Project I	2
MSE 499	Design Project II	3
MSE Elective[18]		3
Mathematics, science, or engineering elective[17]		3
Area II Core Curriculum requirement [1]		3
Area IV Core Curriculum requirement [1]		3
Total semester hours		**31**

*Transfer students may substitute EGR 100, Introduction to Engineering for EGR 110/EGR 111.
** Students may also take MA 227-Calculus III and MA 252-Differential Equations instead of EGR 265 and one SCI/MA/EGR elective
***MSE students may take ME 405 Manufacturing Processes instead of MSE 401.
[1]Please refer to the Core Curriculum as specified for Engineering majors.
[17,18] Course must be approved by MSE Chair.

Course Descriptions
Materials Science Engineering (MSE)

MSE 099 - EGR Experiential Learning
Engineering workplace experience in preparation for the student's intended career.

MSE 280 - Engineering Materials - 3
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 - 3
Structure of metals, ceramics and polymers; crystal bonding; phase diagrams, diffusion, dislocations and grain boundaries. Applications to the iron-carbon system, including heat treatment. *Prerequisites:* MA 125 and MSE 280

MSE 281L - Physical Materials I Lab - 0
Materials Engineering Lab I

MSE 350 - Intro to Materials - 3
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
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 and CH 118 and MA 126 and MSE 280

MSE 381 - Physical Materials II - 3
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

MSE 382 - Mech Behavior of Materials - 3
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

MSE 401 - Materials Processing - 3
Processing of metals, glasses, ceramics, and composites. Powder processing, casting, welding, rapid solidification, and other advanced methods. *Prerequisites:* CE 220 and CE 220 and MA 125 and MSE 280

MSE 402 - Frontiers of Materials - 3
Recent advances in materials technology and application. Novel processing, structures, properties, and performance issues. *Prerequisites:* MSE 281

MSE 403 - Degradation of Materials - 3
Issues in long-term utilization of materials. Corrosion, high-temperature oxidation, creep, fatigue, and their interactions. *Prerequisites:* MSE 281

MSE 404 - Ferrous Casting Prod/Inspect - 3
Production and evaluation of cast ferrous metals (gray iron, ductile iron, carbon steel). Course will cover major casting techniques, gating, risering, solidification, phase formation, and inspection. Inspection techniques include x-ray, ultrasonic, and dye penetrant. *Prerequisites:* MSE 280

MSE 404L - Ferrous Cast Prod/Inspect Lab - 0
Experiments in ferrous casting and plant trips.

MSE 406 - Aluminium Casting Prod/Inspect - 3
Production and evaluation of cast aluminum, especially alloys 319, 356, and 357 and 380. Course will cover major casting techniques, gating and risering, degassing, pouring, solidification, phase formation, and inspection. Inspection techniques include x-ray, ultrasonic, and dye penetrant. *Prerequisites:* MSE 280

MSE 406L - Aluminum Cast Prod/Inspect Lab - 0
Experiments in aluminum casting and plant trips.

MSE 409 - Principles of Metal Casting - 3
Production and evalution 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. *Prerequisites:* MSE 280

MSE 409 - Principles of Metal Casting - 3
Production and evalution 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 treatment, analysis and handling techniques required to produce high quality castings. *Prerequisites:* MSE 280

MSE 409L - Principles of Metal Casting - 0
Lab component for MSE 409.

MSE 410 - Materials Engineering Lab III - 2
Design of experiments. Processing of steels, cast irons, and aluminum alloys. Structure-property relationships in composites. MSE 310 (Materials Engineering II Lab) is recommended as a prerequisite for this course. *Prerequisites:* MSE 381

MSE 413 - Composite Materials - 3
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. *Prerequisites:* MSE 281

MSE 430 - Polymeric Materials - 3
Processing methods, structure/engineering/property relationships, and applications of polymeric materials. *Prerequisites:* CH 117 and CH 118 and MSE 281

MSE 430L - Polymeric Materials Lab - 0
Introduction to Polymer Chemistry I Laboratory

MSE 433 - Nondestr Eval of Materials - 3
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

MSE 464 - Metals and Alloys - 3
Microstructures, properties, heat treatment, and processing of ferrous and nonferrous materials. *Prerequisites:* MSE 281

MSE 465 - Characterization of Materials - 4
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. *Prerequisites:* MSE 281

MSE 465L - Char of Materials Lab - 0
Lab component of Characterization of Materials.

MSE 470 - Ceramic Materials - 3
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:* CH 117 and CH 118 and MSE 281

MSE 484 - Elect/Magnet/Thermal Prop Mats - 3
Fundamentals of electron band structure, mechanisms behind rectifying junctions, transistors, and other electronic devices. Magnetic and thermal properties of materials. *Prerequisites:* MSE 280 and PH 221

MSE 490 - Special Topics in (Area) - 1 to 6
Special Topics in (Area)

MSE 491 - Individual Study in (Area) - 1 to 6
Individual Study in (Area)

MSE 496 - MSE Honors Seminar - 1
Research presentations by faculty, students, and invited guests on topics related to Materials Science and Engineering.

MSE 498 - Senior Design Project I - 2
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:* MSE 401 or MSE 405

MSE 499 - Senior Design Project II - 3
Continuation of MSE 498 which must be taken in the previous term. Interim and final design reviews with written and oral reports. *Prerequisites:* MSE 498

Department of Mechanical Engineering

Chair: Bharat K. Soni
Faculty: Boylan, Cazamias, Cheng, Dinavahi, Ito, Kim, Koomullil, Littlefield, Mastin, Meakin, McInerny, Moore, Nichols, Oliver, Ross, Santoro, Shih, F. Simionescue, P. Simionescue, Walsh

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 (Accreditation Board for Engineering and Technology, Inc.), 111 Market Place Suite 1050; Baltimore, MD 21202-4012; telephone: (410) 347-7700. 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 Program Objectives are to enable our graduates to:

A. Succeed in their chosen career and, if pursued, their further education;
B. Develop professionally through continuing education or training; and
C. Serve the community at large.

LOWER DIVISION REQUIREMENTS FOR MECHANICAL ENGINEERING

All required courses must be completed with a C or better

Requirement	Fulfilled By:	Hrs.
General Chemistry Requirement	Take both of the following courses: **CH 115/CH 116 CH 117**	7
Engineering Computation	Select one of the following courses: **EGR 150**	3
Required Courses	Take all of the following courses: **CE 210 EE 312 ME 102 EGR 111** **ME 215 EGR 110 MSE 280 CE 395** **CE 220 MA 126 EGR 265 CE 221**	34
Advanced Math Elective	**ME 364**	3
	Total Lower Division Requirements:	**47**

MAJOR REQUIREMENTS FOR MECHANICAL ENGINEERING

All required courses must be complete with a C or better

Requirement	Fulfilled By:	Hrs.
Required Materials Engineering Courses	Take all of the following courses: **ME 241 ME 321 ME 361 ME 405 ME 499** **ME 242 ME 322 ME 370 ME 461** **ME 472 ME 360 ME 371 ME 498**	39
Materials Engineering Electives	Choose one **Mechanical Engineering (ME)** elective course in each of the following areas: thermal fluid systems, mechanical systems, and computer-aided engineering.	9
	All Mechanical Engineering students must take the Fundamentals of Engineering Exam	
	Total Major Requirements:	**45**

ADDITIONAL REQUIREMENTS FOR THE SCHOOL OF ENGINEERING

Requirement	Fulfilled By:
School of Engineering Guidelines for Admission, Academic Progress, and Academic Conduct	Students are required to follow the most up-to-date set of guidelines as detailed in the most current School of Engineering Guidelines for Admission, Academic Progress, and Academic Conduction.
School of Engineering Reasonable Progress Requirement	All students in the School of Engineering must maintain an institutional GPA of 2.0 in all UAB courses and all UAB Engineering courses applicable toward degree.
School of Engineering Graduation Requirements	Students must have a 2.0 GPA in all UAB coursework and all UAB engineering coursework applicable to degree in order to graduate with a degree from the School of Engineering. All required courses failed at UAB must be repeated at UAB in order for a student to receive credit.

Curriculum for the Bachelor of Science in Mechanical Engineering

Freshman Year		Sem. Hrs.
CH 115	Chemistry I	3
CH 116	Chemistry I Laboratory	1
EGR 110/111*	Introduction to Engineering I & II	2
EH 101	English Composition I	3
EH 102	English Composition II	3
MA 125	Calculus I	4
MA 126	Calculus II	4
ME 102	Engineering Graphics	2
EGR 150	Engineering Computations	3
PH 221/221L	General Physics I and Laboratory	4
Area II Core Curriculum requirement [1]		3
Total semester hours		**32**

Sophomore Year		Sem. Hrs.
CE 210	Statics	3
ME 215	Dynamics	3
CE 220	Mechanics of Solids	3
CE 221	Mechanics of Solids Laboratory	1
CH 117	Chemistry II	3
EGR 265**	Engineering Problem Solving	4
ME 241	Thermodynamics I	3
ME 242	Thermodynamics II	3
PH 222/222L	General Physics II and Laboratory	4
Area IV Core Curriculum requirement [1]		3
Math/Science Elective		3
Total semester hours		**33**

Junior Year		Sem. Hrs.	Senior Year		Sem. Hrs.
EE 312	Electrical Systems	3	ME 395	Engineering Economics	3
ME 321	Introduction to Fluid Mechanics	3	ME 461	Mechanical Engineering Lab III	3
ME 322	Introduction to Heat Transfer	3	ME 498	Design Project I	2
ME 360	System Modeling and Controls	3	ME 499	Design Project II	3
ME 361	Mechanical Engineering Laboratory I	3	ME 4XX	Thermal-fluids Elective[2]	3
ME 364	Linear Algebra and Numerical Methods for Engrs	3	ME 4XX	Mechanical Systems Elective[3]	3
			ME 4XX	Computer Aided Eng. Elective [4]	3
ME 370	Kinematics and Dynamics of Machinery	3	MSE 401	Manufacturing Processes	3
ME 371	Machine Design	4	Area II Core Curriculum requirement [1]		3
MSE 280	Engineering Materials	3	Area IV Core Curriculum requirement [1]		3
Area II Core Curriculum requirement [1]		3	Area IV Core Curriculum requirement [1]		3
Total semester hours		**31**	**Total semester hours**		**32**

*Transfer students may substitute EGR 100, Introduction to Engineering for EGR 110/EGR 111.
** Students may also take MA 227-Calculus III and MA 252-Differential Equations instead of EGR 265 and approved Math/ Science elective.
[1]Please refer to the Core Curriculum as specified for Engineering majors.
[2]Thermal fluid electives include ME 411, 445, 448, 449, and 455.
[3]Mechanical systems electives include ME 430, 464, 475.
[4]Electives with computer-aided engineering content include ME 464, 465, 483

Course Descriptions
Mechanical Engineering (ME)

ME 099 - EGR Experimental Learning
Engineering workplace experience in preparation for the student's intended career.

ME 101 - Drawing for Ind Dist - 1
Technical sketching and reading of engineering drawings for non-engineering majors. *Prerequisites:* MA 109 or MA 125

ME 102 - Engineering Graphics - 2
Basic concepts in technical sketching, computer-aided drawing and design, projections, sections and dimensioning. *Prerequisites:* (May be taken Concurrently) MA 105 or MA 106 or MA 107 or MA 125

ME 215 - Dynamics - 3
Kinematics of particles in Cartesian, cylindrical, and path 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. *Prerequisites:* CE 210

ME 241 - Thermodynamics I - 3
Thermodynamic definitions, properties of a pure substance, ideal, and real gases, work, and heat. Fundamental laws of thermodynamics, entropy, reversible power and refrigeration cycles, irreversibility, and energy. *Prerequisites:* CH 115 and CH 116 and MA 126 and PH 221

ME 242 - Thermodynamics II - 3
Application of thermodynamic principles to engineering systems; vapor power cycles; gas turbine cycles; Otto and Diesel cycles; refrigeration cycles; mixtures of ideal gases; psychrometrics; combustion; chemical equilibrium. *Prerequisites:* PH 221 and MA 126 and (EGR 150 or ME 130 or EE 134)

ME 251 - Intro to Thermal Sciences - 2
Introduction to thermodynamics and heat transfer for non-mechanical engineering majors. *Prerequisites:* MA 126 and PH 221 and (EGR 150 or ME 130 or EE 134)

ME 301 - Design/Measurement/Enhance Sys - 2
Systems involving human performance. For non-engineering majors. Not available for credit toward engineering major.

ME 302 - Overview Mechanical Components - 3
Transformation of energy, thermodynamics, heat transfer, and fluid mechanics. For non-engineering majors. Not available for credit toward engineering major.

ME 321 - Intro to Fluid Mechanics - 3
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, surface resistance, flow in conduits. *Prerequisites:* ME 241 and [(MA 227 and MA 252) or EGR 265)]

ME 322 - Intro to Heat Transfer - 3
Basic concepts of thermodynamics and heat transfer, steady heat conduction, transient heat conduction, numerical methods in heat conduction, forced convection, natural convection, and introduction to radiation. *Prerequisites:* ME 321 and ME 241

ME 360 - System Modeling & Controls - 3
Control systems, feedback, and transfer function concepts. Sensitivity and performance criteria. Laplace transform of mechanical and electrical systems. Stability, steady state, and transient response. Root locus and Nyquist and Bode plots. *Prerequisites:* ME 321 and ME 215 and [(MA 227 and MA 252) or EGR 265)]

ME 361 - Thermo-Fluids - 3
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. *Prerequisites:* ME 241 and ME 321 and ME 322

ME 361L - Thermo-Fluids Laboratory - 0
Lab component of ME 361-Thermo-Fluids. *Prerequisites:* ME 241 and ME 321 and ME 322

ME 364 - Linear Alg & Num Meth-Egrs - 3
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:* (EGR 150 or ME 130 or EE 134) [(MA 227 and MA 252) or EGR 265)]

ME 371 - Machine Design - 4
Body stress, deflection and fatigue strength of machine components. Failure theories, safety factors and reliability, surface damage. Application to welded joints, threaded fasteners, keys, pins, shafts, springs, bearings and gears, as well as design and selection of other machine components. *Prerequisites:* CE 220 and ME 102 and (EGR 150 or ME 130 or EE 134)

ME 405 - Manufacturing Processes - 3
Processing of metals, glasses, ceramics, and composites. Power processing, casting, welding, rapid solidification, and other advanced methods. *Prerequisites:* CE 220 and MSE 280 and MA 125

ME 411 - Intermediate Fluid Mechanics - 3
Applications of fluid dynamic principles to engineering flow problems such as turbo-machinery flow and one-dimensional compressible flow. Vorticity anand viscosity, potential flow, viscous flow, Navier-Stokes, solutions and boundary layers. *Prerequisites:* ME 321 and ME 364

ME 430 - Vehicular Dynamics - 3
Introduction to the basic mechanics governing vehicle performance, analytical methods, and terminology. *Prerequisites:* ME 215 or CE 215

ME 445 - Combustion - 3
Theory and applications of combustion. Thermochemistry, mass transfer, chemical kinetics, analysis of reacting systems, conservation equations, premixed flames, diffusion flames, droplet combustion, solid-fuel combustion, pollutant emissions, and detonations. *Prerequisites:* ME 242 and ME 321 and ME 322

ME 448 - Internal Combustion Engines - 3
Fundamentals of reciprocating internal combustion engines: engine types, engine design and operating parameters, thermochemistry 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. *Prerequisites:* ME 242

ME 449 - Power Generation - 3
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

ME 455 - Thermal Systems Design - 3
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 and ME 364

ME 461 - Mechanical Systems Laboratory - 3
Dynamic measurement using force, displacement, and acceleration transducers. Data acquisition and signal conditioning. Applications of motors and mechanical drives. Design of experiments. Writing proficiency is required. *Prerequisites:* CE 220 and EE 312 and ME 361 and (ME 215 or CE 215)

ME 461L - ME Systems Lab - 0
Lab component of Mechanical Engineering II

ME 464 - Intro to Finite-Element Method - 3
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

ME 465 - Comp Methods Mechanical Engin - 3
Applications of digital computers to solution of problems in mechanical engineering, matrices, roots of equations, solution of simultaneous equations, curve fitting by least squares, differentiation and integration, differential and partial differential equations. *Prerequisites:* (EGR 150 or ME 130 or EE 134) and [(MA 227 and MA 252) or EGR 265)]

ME 467 - Math Methods in EGR 1 - 3
Advanced ordinary differential equations; Eigenvalue problems; multi-variable calculus and implicit functions; curve, surface and volume representation and integration; scalar and vector field theory; Fourier integrals and transforms; separation of variables and transform techniques for solution of partial differential equations. *Prerequisites:* [(MA 227 and MA 252) or EGR 265] and (ME 215 or CE 215)

ME 472 - Machine Design II - 3
Design of machine elements. Threaded fasteners, keys, pins, welded joints, springs, shafts, bearings, gears, couplings, flexible elements, and shafts. *Prerequisites:* ME 371

ME 475 - Mechanical Vibrations - 3
Free and forced single-degree-of-freedom systems. Multi-degree-of-freedom systems. Simple continuous systems. *Prerequisites:* [(MA 227 and MA 252) or EGR 265] and (ME 215 or CE 215)

ME 476 - Failure Analysis - 3
Procedures for failure analysis, failure mechanisms, examples of service failures, and methods to prevent failures. Independent study via video. *Prerequisites:* CE 220 and MSE 280

ME 483 - Computer-Aided Engineering - 3
Computer aided engineering concepts including geometry design, solid modeling and computer aided design (CAD) systems. Their applications to mechanical engineering problems in design and mechanical, thermal, power, and energy systems, and computational field simulations explored. *Prerequisites:* ME 321 and CE 220 and (EGR 150 or ME 130 or EE 134)

ME 489 - UG EGR Research
Undergraduate research experiences in mechanical engineering.

ME 490 - Special Topics in (Area) - 1 to 4
Special Topics in (Area)

ME 491 - Individual Study in (Area) - 1 to 4
Individual Study in (Area)

ME 494 - ME Seminar - 1
Required for ME undergraduate Honors Program students. Presentations by students, faculty, and guests regarding current research.

ME 496 - Honors Research - 1 to 6
Research opportunities for undergraduate students in the Mechanical Engineering Honors Program. *Prerequisites:* EGR 301 and EGR 302

ME 498 - Senior Design Project I - 2
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. Must have an Application for Degree filed. *Prerequisites:* ME 371 and (ME 405 or MSE 401)

ME 499 - Senior Design Project II - 3
Continuation of ME 498. Interim and final design reviews with written and oral reports. ME 498 must be taken the term immediately before ME 499. *Prerequisites:* ME 498

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: cytotechnology, health information management, health sciences, medical technology, nuclear medicine technology, radiation therapy/radiologic sciences, advanced imaging/radiologic sciences, and respiratory therapy. 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) and nutrition sciences; Doctor of Science in physical therapy and a Doctor of Physical Therapy; Master of Science degree programs in clinical laboratory sciences, clinical nutrition, health administration, health informatics, occupational therapy, surgical physician assistant; and a Master of Nurse Anesthesia. Post-baccalaureate certificates are also offered for the Dietetic Internship and Low Vision Rehabilitation programs.

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 greatly. Persons desiring admission to a particular program should consult the appropriate section of the School of Health Professions catalog for specific entrance requirements, application, and program information. Students who attend an institution other than UAB are encouraged to seek academic advisement from the SHP program of their interest 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, Hill University Center, Room 260, 1400 University Boulevard, Birmingham, Alabama 35294-1150, 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 Services, School of Health Professions Building, Room 475, 1705 University Boulevard; telephone: (205) 934-4194.

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, as adopted during strategic planning in 2003, 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 declaring a pre-health major (any School of Health Professions undergraduate program or pre-SHP with undeclared major) are required to complete a sequence of first year experience courses during their first fall and spring terms. These courses, HRP 101 and HRP 102, are designed to ease the transition between high school and university experiences and to prepare students for success in health professions majors. Each course is two semester hours credit, and 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 greatly 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.

CORE CURRICULUM

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses **EH 101 EH 102**	6
Area II: Literature	Select one in sequence of the following courses: EH 217 EH 220 EH 223 EH 218 EH 221 EH 224	3
Area II: Fine Arts	Select one of the following courses: ARH 101 ARH 106 ARH 107 ARH 108 ARH 109 MU 120 THR 100 THR 105 THR 200	3
Area II: Fine Arts/ Humanities	Select two of the following courses: 2nd Literature (in sequence) Any Fine Art/Humanities Elective Listed in the AGSC Approved Course	6
Area III: Mathematics	Select one of the following courses: MA 105	3
Area III: Natural Sciences	Select two of the following courses (with laboratories): Any science course with laboratories listed in the AGSC approved courses. *[NOTE: Programs may have specified courses fro major.]*	8
Area IV: History	Select one of the following courses: Any History Elective Listed in the AGSC Approved Course List	3
Area IV: Social & Behavioral Sciences	Select three of the following courses: 2nd History (in sequence) Any Social & Behavioral Sciences Elective Listed in the AGSC Approved Course List	9

Area V: Required prerequisites	Select the following required courses: Specific to program– see major requirements.	-
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: EH 217-218 HY 101-102 EH 220-221 HY 104-105 EH 223-224 HY 120-121	-
	Total Core Curriculum Requirements:	41

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 programs include capstone experiences, either a supervised practicum, a didactic course, or a combination of both.

UNIVERSITY REQUIREMENTS

Requirement	Fulfilled By:
Credit Hours	In order to receive a degree at UAB, a student must have 120 semester hours of acceptable credit.

Interdisciplinary Majors / Minors

Interdisciplinary majors are not offered by the School of Health Professions. With the exception of the Health Sciences Program, undergraduate majors in the School prepare graduates for licensure or certification and professional practice in specific health professions disciplines. Curricula for these programs are prescribed by their accrediting bodies. Students may elect to pursue any minor available at UAB in addition to their major, but minor study is not required. The Health Sciences Program offers a minor with a focus on health care management.

SHP 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 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.

Major: Cytotechnology

Program Director: Pijuan-Thompson
Medical Director: Eltoum
Faculty: Pijuan-Thompson, Brock

The SHP Cytotechnology Program is the only program of its kind in Alabama. Cytotechnologists assist pathologists by performing microscopic evaluation of cellular samples from virtually all organs of the body to detect microorganisms, infectious lesions, cancer, and related diseases. Cytotechnologists also perform various specialized techniques used in collecting, preparing, and staining cellular samples. The program is accredited by the Commission on Accreditation of Allied Health Education Programs in collaboration with the Cytotechnology Programs Review Committee of the American Society of Cytopathology. Graduates are eligible to apply for the cytotechnologist certification examination of the Board of Registry of the American Society of Clinical Pathologists.

Admission Requirements: The student usually will have completed 70 semester hours before enrolling in SHP for three semesters of professional courses. Acceptance is based upon the student's academic ability and aptitude for a career as a cytotechnologist. The candidate is expected to satisfy the following requirements:

- have a minimum cumulative grade point average of 2.4 (A=4.0) in Area I Written Composition, Area II Humanities and Fine Arts, and Area IV History, Social, and Behavioral Sciences core curriculum prerequisites,
- have a minimum grade point average of 2.4 in Natural Sciences and Mathematics prerequisites in Area III and Area V of the core curriculum, calculated on all hours attempted,
- have a minimum grade of C in each course in the UAB/Program Core Curriculum,
- complete an interview with the selection committee
- document a visit to a cytotechnology lab,
- 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 and
- if accepted, a background check and/or drug screening may be required prior to clinical placement.

Application Procedure: Completed applications received by April 15 preceding the expected term of enrollment for the professional phase are given first priority. Applications received after April 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, indicating pre-cytotechnology as the major, and application fee, if applicable (if enrolled at UAB in another major, complete a Change of School/ Major Request indicating pre-cytotechnology as the major; form available from the Office of Registration and Academic Records), and
- official transcripts from each college or university attended.

To the Cytotechnology Program Office, School of Health Professions:

- completed application to the professional phase of the Cytotechnology Program (form available from the program office).

Contact for additional information:
Program Director
Cytotechnology Program
School of Health Professions
University of Alabama at Birmingham
Birmingham, Alabama 35294-1270
Telephone: (205) 934-4863
E-mail: ptyler@uab.edu
Web address: www.uab.edu/ct

MAJOR REQUIREMENTS FOR CYTOTECHNOLOGY

Requirement	Fulfilled By:	Hrs.
Grade and Residency Requirements	2.5 GPA All courses completed with a grade of "C" or better	
Required Mathematics	See your Academic Advisor.	
Required Courses	Take all of the following courses: CT 401 CT 402 CT 403 CT 411 CT 412 CT 421 CT 422 CT 424 CT 425 CT 490 CT 491 CT 492 MT 342 MT 400 RAS 485	52
Electives	See your Academic Advisor for a list of approved electives.	
	Total Major Requirements:	52

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	No minor required
General Electives	Students must take general electives to reach the 120 semester hour requirement.

Typical Program
Professional Phase

Senior Year

Fall			**Sem. Hrs.**
CT	401	Gynecologic Cytopathology I	5
CT	402	Gynecologic Cytopathology II	5
CT	403	Laboratory Operations	2
MT	400	Health and Safety Management	1
CT	421	Gynecologic Cytopathology I Laboratory	2
CT	422	Gynecologic Cytopathology II Laboratory	3
AHS	460	Research Methods	3
Spring			
CT	411	Non-Gynecologic Cytopathology I	5
CT	412	Non-Gynecologic Cytopathology II	5
CT	424	Non-Gynecologic Cytopathology I Laboratory	2
CT	425	Non-Gynecologic Cytopathology II Laboratory	3
MT	342	Molecular Diagnostics	4
Summer			
CT	490	Clinical Practicum I	4
CT	491	Clinical Practicum II	4
CT	492	Clinical Practicum III	4

Course Descriptions
Cytotechnology (CT)

CT 401 - Gynecologic Cytopathology I - 5
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 endocrinopathies; and cytologic effects of parasites, viruses, bacteria, and fungi.

CT 402 - Gynecologic Cytopathology II - 5
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; liquid-based cytology; and seminar and journal club on related topics. *Prerequisites:* CT 401 and CT 421

CT 411 - Non-Gyn Cytopathology I - 5
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. *Prerequisites:* CT 403

CT 412 - Non-Gyn Cytopathology I - 5
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 411 and CT 424

CT 421 - Gynecologic Cytopath I Lab - 2
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. *Prerequisites:* CT 401

CT 422 - Gynecologic Cytopath II Lab - 3
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; and liquid-based cytology. *Prerequisites:* CT 402

CT 424 - Non-Gyn Cytopathology I Lab - 2
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. *Prerequisites:* CT 411

CT 425 - Non-Gyn Cytopathology II Lab - 3
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 412

CT 490 Clinical Practicum I - 4
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
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. *Prerequisite:* CT 490.

CT 492 Clinical Practicum III - 4
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. *Prerequisite:* CT 491.

Major: Health Information Management

Program Director: Clements
Faculty: Clements, Garrie, Houser, Kinnerson, Ray, Spath

The Health Information Management Program prepares students to evaluate and improve the quality of health information resources. Health information managers (HIMs) work with administrative and clinical staffs in health care facilities to provide the best possible information resources, a necessity for quality health care. HIMs design and maintain health information systems to collect, assess, and disseminate clinical and administrative data. The program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Program graduates are eligible to apply for the Registered Health Information Administrator credentialing examination given by the American Health Information Management Association.

Admission Requirements: Students are eligible for admission to the professional program only in the fall term of the junior year after completion of the prerequisites with a minimum of 60 semester hours, exclusive of physical education.
All candidates must satisfy the following requirements:

- have a minimum cumulative grade point average of 2.5 (A=4.0),
- have a minimum grade of C in each course in the UAB/Program Core Curriculum,
- be accepted by the University of Alabama at Birmingham,
- 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, and
- if accepted, a background check and/or drug screening may be required prior to clinical placement.

Application Procedure: Completed applications for the professional phase of the program should be submitted by March 1 preceding the expected term of enrollment in the professional phase; after March 1, applications are considered on a space-available basis.
Applicants should submit the following materials:

To the UAB Undergraduate Admissions Office:

- completed UAB undergraduate application form, indicating pre-health information management as the major, and application fee, if applicable (if enrolled at UAB in another major, complete a Change of School/Major Request indicating pre-health information management as the major; form available from the Office of Registration and Academic Records), and
- official transcripts from each college or university attended.

To the Health Information Management Program Office, School of Health Professions:

- completed application to the professional phase of the program (form available from the program office or from the HIM Program web page: http://www.uab.edu/him).

Contact for additional information:
Program Director
B.S. in Health Information Management
School of Health Professions / Webb Bldg.
University of Alabama at Birmingham
Birmingham, Alabama 35294-3361

Telephone: (205) 934-5173 or 996-9811
E-mail: bshim@uab.edu
Web address: www.uab.edu/him

MAJOR REQUIREMENTS FOR HIM

Requirement	Fulfilled By:	Hrs.
Grade and Residency Requirements	2.5 GPA All courses completed with a grade of "C" or better	
Required Mathematics	See Your Academic Advisor	
Required Courses	Take all of the following courses: **AHS 405 HIM 405 HIM 415 HIM 416 AHS 435** **HIM 410 HIM 440 AHS 416 HIM 425 AHS 403** **HIM 460 HIM 430 HIM 455 HIM 450 HIM 470** **HIM 465 HIM 431 HIM 443 HIM 480 HIM 481**	62
Electives	See your Academic Advisor for Electives	
	Total Major Requirements:	62

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	No minor required
General Electives	Students must take general electives to reach the 120 semester hour requirement.

Typical Program
Professional Phase

The following courses, except for clinicals and internship, may be completed at UAB or by Internet by using distance learning technology.

First Year

Fall			**Sem. Hrs.**
AHS	405	Human Resources Management in HCO	4
HIM	405	Clinical Information I	3
HIM	415	Introduction to Health Information Management	3
HIM	416	Health Data Concepts	3
Spring			
HIM	318	Law for Health Care Professionals	3
AHS	435	Survey of Clinical/Administrative Information Systems	3
HIM	410	Clinical Information II	3
HIM	440	ICD-9-CM Coding	4
Summer			
AHS	416	Financial Management in Health Care Organizations	3
HIM	430	Clinical Experience I	1
HIM	460	Coding/Classification Systems	3
HIM	425	Epidemiology/Applied Statistics in HCO	3
HIM	458	Clinical Terminologies and Vocabularies	2

Second Year

Fall			
HIM	431	Clinical Experience II	1
HIM	450	Clinical Research Methods	3
HIM	455	Reimbursement and Regulatory Requirements for HIM	3
HIM	465	Clinical Evaluation & Outcomes Research	3
HIM	443	Information Resource Management	3
Spring			
HIM	470	Data Management and the EHR	3
HIM	480	Internship	6
HIM	481	Issues in Health Information Management	3

Course Descriptions
Health Information Management (HIM)

HIM 318 - Survey Human Anat/Physiology - 4
Survey course on the structure and function of the body. A systems approach emphasizing physiology of the whole body.

HIM 405 - Clinical Information I - 3
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.

HIM 410- Clinical Information II - 3
Study of diseases with emphasis on medical terminology and pathology relevant to clinical documentation in health care settings. Course content includes manifestation of disease, diagnostic and therapeutic procedures, and pharmacology for digestive, urinary, reproductive and nervous systems and pharmacology, and radiological procedures. Remaining body systems are covered in Clinical Information II.

HIM 415 - Intro to Health Info Mgt - 3
Study of HIM profession and employment opportunities; functions of a HIM department and ancillary hospital departments; 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 JCAHO and other accrediting agencies.

HIM 416 - Health Data Concepts - 3
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 licensure standards applicable to health care data; qualitative and quantitative analysis of health care data; forms and screen design and control.

HIM 425- Epi/Appl Stat in Hlth Care Org - 3
Concepts of epidemiology; basic biostatistics; vital statistics; data collection and data presentation; study designs.

HIM 430 - Clinical I - 1 to 2
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
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-9-CM Coding - 4
Diagnostic and procedural coding, including the principles of ICD-9-CM coding and UHDDS guidelines. *Prerequisites:* HIM 405 and (BY 115 and BY 116 or HIM 315)

HIM 443 - Information Resource Mgt - 3
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
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

HIM 455 - Reimburse/Regulat Req for HIM - 3
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 and 460. *Prerequisites:* HIM 440 and HIM 460

HIM 458 - Clinical Terminology and Voc - 2
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

HIM 460 - Coding/Classification Systems - 3
Ambulatory care coding CPT 4, HCPCS, ICPC for outpatient facilities and physician offices and secondary nomenclatures and classifications schemes, including: Systematized Nomenclature of Human and Veterinary Medicine (SNOMED); International Classification of Disease Oncology; (ICD 0); Diagnostic and Statistical Manual for Mental Disorders (DSM IV); and Federal Coding and reporting requirements for ambulatory care. *Prerequisites:* HIM 405 and HIM 415

HIM 465 - Clinical Eval/Outcomes Res - 3
Review of current approaches to measuring, evaluating, and reporting clinical outcomes in health care organizations.

HIM 470 - Data Management - 3
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 and HIM 415

HIM 480 - Internship - 6
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 HIM Seminar - 3
Current developments in HIM, emphasizing managerial implications. Must have completed all didactic HIM courses.

Major: Health Sciences

Program Director: Slovensky
Faculty: Elder, Garrie, Giardina, Hamer, Paustian, Powell, Spath, Trimm

The Health Sciences Program is UAB's undergraduate health care manager program. The program curriculum develops the industry knowledge and job skills needed by mid-level managers in health care organizations. Some students use the degree as entry to graduate programs, while others use it as their terminal degree. Admission options are based on the student's previous academic work, current professional status, and personal interests – Pre-professional, Clinical Manager and General Manager. Students who plan to seek admission to graduate level health professions programs may apply for admission to the Pre-professional option. The clinical manager option is restricted to individuals who are credentialed or licensed in a health professions discipline. All other students should consider the General Manager option. The program is a Full Certified Undergraduate Member of the Association of University Programs in Health Administration.

Admission Requirements: 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;
- complete the UAB/Program Core Curriculum with a minimum grade of C in each course;
- 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 and
- if accepted, a background check and/or drug screening may be required prior to clinical placement.

Application Procedure: Applications are accepted at any time, and students may be enrolled during in 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 (if enrolled at UAB in another major, complete a Change of School/Major Request indicating SHP as the school; form available from the Office of Registration and Academic Records), and
- official transcripts from each college or university attended.

To the Health Sciences Program Office, School of Health Professions:

- completed application to the professional phase of the B.S. in Health Sciences Program (form available from the program office or from the BSHS Program web page: www.uab.edu/bshs), and
- if applying to the Clinical Manager option, a photocopy of current license, registry, or certification in a health specialty.

The student should request an appointment with a program 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:
Program Director
B.S. in Health Sciences Program
School of Health Professions / Webb Bldg.
University of Alabama at Birmingham
Birmingham, Alabama 35294-3361
Telephone: (205) 934-5173
E-mail: bshs@uab.edu
Web address: www.uab.edu/bshs

MAJOR REQUIREMENTS FOR HEALTH SCIENCE

Requirement	Fulfilled By:	Hrs.
Grade and Residency Requirements	2.5 G.P.A. required for the Clinical Manager or General Manager Track 2.75 G.P.A. required for the Pre-Professional Degree Track Internship during final semester (Additional elective required if 3 hour internship)	
Required Mathematics	Take one of the following courses: MA 105 or MA 110	3
Required Courses	Take all of the following courses: AHS 318 AHS 401 AHS 415 AHS 460 AHS 320 AHS 403 AHS 416 AHS 481 AHS 330 AHS 405 HIM 425 AHS 482 AHS 350 AHS 407 AHS 435 AHS 360 AHS 411 AHS 450	57-60
Electives	AHS 302 AHS 421	
	Total Major Requirements:	60-63

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	No minor required
General Electives	Students must take general electives to reach the 120 semester hour requirement.

BSHS Professional Curriculum

A minimum grade of C is required in each course in the BSHS 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.

Health Care Organization, Financing, and Reimbursement		**Sem. Hrs.**
AHS 300	Survey of Health Professions	2
AHS 330	Health Care Systems	3
AHS 416	Financial Management in Health Care Organizations	3
AHS 482	Current Issues Seminar	3
Management and Leadership		
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 HCOs	3
AHS 481	Management Internship (Elective required if 3-hour internship)	3-6

Ethics, Law, and Regulation

AHS 318	Law for Health Care Professionals	3
AHS 411	Bio-Psycho-Social Issues of Aging	3
AHS 415	Ethics for the Health Professional	3

Evaluation and Outcomes

AHS 350	Medical Terminology for Health Professionals	3
AHS 360	Statistics for Managers	3
HIM 425	Epidemiology/Applied Statistics in HCOs	3
AHS 450	Quality Management in Health Care	3
AHS 460	Research Methods	3

Information Resources

AHS 320	Microcomputer Applications for Health Care Professionals	3
AHS 435	Survey of Clinical and Administrative Information Systems	3

Elective Study

AHS 421	Independent Study	3
AHS 590	Leadership for Health Professionals	3
	Electives	3-6

Minor: Health Sciences

The health sciences program offers a minor option for undergraduate students matriculating in programs in the School of Health Professions. The minor requires completion of 21 semester hours of course work, including 15 hours of health care management courses. Students must apply to the Health Sciences 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 following courses are required to earn the minor:

AHS 330 Health Care Systems – 3 hours
AHS 401 Organizational Studies in Health Care – 4 hours
AHS 403 Operations Management in Health Care Organizations – 4 hours
AHS 405 Human Resources Management in Health Care Organizations – 4 hours
AHS 407 Strategic Management in Health Care Organizations – 3 hours
AHS 415 Ethics for the Health Professional – 3 hours

Course Descriptions
Health Sciences (AHS)

AHS 300 - Survey of Health Professions - 2
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
Basic management concepts; oral & written communication; planning & goal setting; decision-making & problem solving; personnel selection; performance appraisal.

AHS 318 - Law for Health Care Prof - 3
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 - Microcomp Appl Hlth Care Prof - 3
Spreadsheet, database, file management, information systems, Internet, and presentation applications in managerial functions. Mandatory attendance at orientation session.

AHS 330 - Health Care Systems - 3
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 360 - Statistics for Healthcare Managers - 3
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. *Prerequisite:* MA 105 or MA 110.

AHS 401 - Org Studies in Health Care - 4
Behavioral science concepts including leadership, managing change, negotiating and conflict resolution, team building, organizational assessment, marketing, and entrepreneurship. *Prerequisites:* AHS 330

AHS 403 - Oper Mgt in Health Care Org - 4
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. *Prerequisites:* AHS 401

AHS 405 - HR Mgt in Health Care Org - 4
Managerial activities related to job descriptions, recruiting, interviewing, hiring, firing, orientation, benefits, appraisal, discipline, and developing clinical and non-clinical personnel. *Prerequisites:* AHS 401 and AHS 403

AHS 407 - Strategic Mgt in Hlth Care Org - 3
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 401 and AHS 403 and AHS 435

AHS 411 - Bio/Psych/Soc Issues of Aging - 3
Overview of current gerontological-geriatric information; special needs of the elderly in receiving health care services. *Prerequisites:* AHS 330

AHS 412 - Competency Assess/Empl Train - 3

AHS 415 - Ethics for the Health Prof - 3
Overview of major ethical theories; ethical decision-making models; application to patients rights, confidentiality, informed consent, professional relationships, and allocation of scarce resources. *Prerequisites:* AHS 318 and AHS 330

AHS 416 - Fin Mgt in Health Care Org - 3
Overview of financial management functions at departmental level; budgeting and cost analysis for department-level operations and capital expenditures. *Prerequisites:* AC 200 and AC 201 and AHS 320 and AHS 330

AHS 421 - Independent Study - 1 to 3
Media research to develop paper and oral presentation on approved topic.

AHS 435 - Clinical/Admin Info Systems - 3
Overview of information systems and applications in health care organizations; issues and challenges in system design and implementation. *Prerequisites:* AHS 320 and AHS 330

AHS 450 - Quality Mgt in Health Care - 3
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

AHS 460 - Research Methods - 3
Use of statistical methodology in health professions research; overview of research methodologies; guidelines for critiquing published research; development of research proposal. Prerequisite: Basic statistics *Prerequisites:* AHS 330 and AHS 360 and MA 180 and PY 214 and QM 214

AHS 481 - Management Internship - 3 to 6
Supervised experience in managerial functions in selected health care organization. *Prerequisites:* AHS 401 and AHS 403 and AHS 405 and AHS 407

AHS 482 - Current Issues Seminar - 3
Identification of current issues in health care industry, emphasis on analyzing organizational impact. Prerequisite: Concurrent enrollment in AHS 481 preferred. *Prerequisites:* AHS 481

Major: Medical Technology

Established in 1945, the Medical Technology Program was one of the first programs developed in the UAB Medical Center, as well as one of the first programs to train medical technologists in the U.S. Medical technologists (MT) assume major responsibility for analyzing body fluids and other specimens to aid physicians in the diagnosis of disease and therapeutic monitoring of treatment. The MT assesses, controls, and manages quality laboratory service and information and performs preventive maintenance and trouble-shooting of typical laboratory problems.

The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Program graduates are eligible to apply for the certification examinations of the National Certification Agency for Medical Laboratory Personnel and the Board of Registry of the American Society of Clinical Pathologists.

Admission Requirements: The student usually will have completed approximately 60 semester hours before transferring 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, and
- 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, and
- if accepted, a background check and/or drug screening may be required prior to clinical placement.

The MT program offers an early acceptance (CEAP) for entering UAB freshman and sophomore students with good academic records. Interested students should contact the Medical Technology Program for further information and application. 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 form, indicating pre-medical technology as the major, and application fee, if applicable (if enrolled at UAB in another major, complete a Change of School/Major Request indicating pre-medical technology as the major; form available from the Office of Registration and Academic Records), and
- 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 from the program office).

Contact for additional information:
Program Director
Medical Technology Program
School of Health Professions Building
University of Alabama at Birmingham
Birmingham, Alabama 35294-1270
Telephone: (205) 996-2157
E-mail: bsmt@uab.edu
Web address: www.uab.edu/mt

MAJOR REQUIREMENTS FOR MEDICAL TECHNOLOGY

Requirement	Fulfilled By:	Hrs.
Grade and Residency Requirements	Minimum 2.3 GPA All courses completed with a grade of "C" or better	-
Required Mathematics	Please see your academic advisor	
Required Courses	Take all of the following courses: MT 325 MT 340 MT 441 MT 412 MT 400Q MT 421 MT 437 MT 470 MT 320 MT 302 MT 408 MT 430 MT 405 MT 409 MT 336 MT 460 MT 410 MT 342 MT 402 MT 411	68
Electives	Please see your academic advisor	
	Total Major Requirements:	68

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	No minor required
General Electives	Students must take general electives to reach the 120 semester hour requirement.

Typical Program
Professional Phase

Junior Year

Fall		**Sem. Hrs.**
MT 320	Clinical Chemistry I	4
MT 325	Immunology	5
MT 400	Health and Safety Management	1
Spring		
MT 336	Clinical Microbiology I	7
MT 430	Immunohematology	7
MT 342	Molecular Diagnostics	4
Summer		
MT 302	Body Fluid Analysis	3
MT 340	Hematology I	4
MT 405	Laboratory Management	3
MT 421	Clinical Chemistry II	3

Senior Year

Fall		**Sem. Hrs.**
MT 402	Hemostasis	2
MT 437	Clinical Microbiology II	3
MT 441	Hematology II	4
MT 460	Clinical Correlations	3
Spring		
MT 407	Chemistry Clinical Practice	3
MT 408	Hematology Clinical Practice	3
MT 409	Immunohematology Clinical Practice	2
MT 410	Immunology Clinical Practice	1
MT 411	Microbiology Clinical Practice	3
MT 412	Clinical Laboratory Operations	3
MT 470	Professional Development	1

Course Descriptions
Medical Technology (MT)

MT 302 - Lab Analysis of Body Fluids - 3
Analysis of renal and systemic disease through the physical, biochemical, and microscopic analysis of urine and feces. Analysis of central nervous system and systemic disease through cerebrospinal fluid analysis. Analysis of metabolic and infectious diseases through the analysis of peritoneal fluid, synovial fluid, transudates, and exudates. Fertility testing by semen analysis. *Prerequisites:* MT 400

MT 325 - Immunology - 5
Physiology of immune responses to infectious agents, tumors, transplants; abnormal responses: hypersensitivity, autoimmunity, immunoproliferative disorders, and immunodeficiencies; antigen-antibody reactions; complement; principles and applications of clinical iimmunology. *Prerequisites:* MT 400

MT 336 - Clinical Microbiology I - 7
Procedures and identification techniques for isolation and identification of bacteria, application of microbial characteristics for isolates from clinical specimens; focus on laboratory diagnosis of infectious diseases; data interpretation and clinical correlation and epidemiology of etiologic and iatrogenic agents. *Prerequisites: (*BY 261 or BY 271) and (CLS 550 or MT 400)

MT 340 - Hematology I - 4
Systematic examination of blood cells: normal function; recognizing their microscopic appearance; blood cell disorders; standard and special clinical hematology laboratory procedures; validation of laboratory data; interpretation of results, quality assurance. *Prerequisites:* MT 400

MT 342 - Molecular Diagnostics - 4
Overview of nucleic acid structure, gene expression, and genetic disease. Principle and performance of DNA and RNA isolation, amplification, hybridization, and analysis. Applications in microbiology, prenatal diagnosis, cancer management, transplantation, paternity testing, thrombosis risk testing and forensic medicine.

MT 350 - Special Topics: Chemistry - 1 to 3
Designed specifically for individual student to cover topics not covered in MLT curriculum.

MT 352 - Special Topics: Immunology - 1 to 3
Designed specifically for individual student to cover topics not covered in MLT/CLS curriculum or for students who previously had an Immunology course.

MT 353 - Special Topics: Microbiology - 1 to 4
Designed specifically for individual student to cover topics not covered in MLT curriculum or topics not covered in previous medical microbiology course.

MT 400 - Health and Safety Management - 1
Review of infection control principles focused on bloodborne, airborne, drug-resistant and opportunistic pathogens, and general health and safety guidelines and standards.

MT 402 - Hemostasis - 2
Normal hemostatic mechanisms and disorders of hemostasis; laboratory methods of evaluating and monitoring hemostatic functions. *Prerequisites:* MT 400

MT 404 - Laboratory Analysis of Body Fluids
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 405 - Lab Management - 3
Behavioral aspects of management; leadership styles and management theory; communication skills; education and training; project management; planning and goal-setting; decision-making and problem-solving; legal issues related to employment; recruitment, interview and selection of personnel; team leadership; conflict resolution; feedback and negotiation; performance appraisal and management; motivation.

MT 406 - Laboratory Techniques
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 407 - Chemistry Clinical Practice - 3
Directed clinical practice: laboratory procedures and methods of evaluating and monitoring organ function, disease presence and progression, therapy; instrumentation, quality assurance practices; safety. *Prerequisites:* MT 421

MT 408 - Hematology Clinical Practice - 3
Laboratory hematology, hemostasis, urinalysis, and analysis of body fluids. Methods, techniques, specimen and data management, information systems, quality assurance, preventive maintenance, problem-sloving and safety. *Prerequisites:* MT 340

MT 409 - Immunohematology Clinical Prac - 2
Directed clinical practice: laboratory procedures and methods of evaluating and monitoring organ function, disease presence and progression, therapy; instrumentation, quality assurance practices; safety. *Prerequisites:* MT 430

MT 410 - Immunology Clinical Practice - 1
Directed clinical practice in clinical immunology: laboratory procedures and methods of evaluating and monitoring organ function, disease presence and progression, therapy; instrumentation, quality assurance practices; safety. *Prerequisites:* MT 325

MT 411 - Microbiology Clinical Practice - 3
Directed clinical practice in clinical microbiology: laboratory procedures and methods of evaluating and monitoring organ function, disease presence and progression, therapy; instrumentation, quality assurance practices; safety. *Prerequisites:* MT 437

MT 412 - Clinical Laboratory Operations - 3
Operations management practices for clinical laboratories, including performance management, cost accounting, budgeting, marketing, technology assessment, regulatory and financial compliance, test utilization, emerging technologies, laboratory informatics and competency-based management practices. *Prerequisites:* CLS 600 or MT 405

MT 419 - Immunology Laboratory
Specimen requirements, principle, procedure, clinical significance, and sources of error of common clinical immunology tests; performance and interpretation of tests; application of results to clinical situations.

MT 421 - Clinical Chemistry II - 3
Liver function, pancreatic and digestive function, electrolyte and acid/base metabolism, point of care testing, method evaluation, endocrinology, therapeutic drug monitoring, and evaluation of drugs of abuse.

MT 424 - Clinical Microbiology Lab - 1
Performance of techniques and tests used in the isolation and identification of bacteria, fungi, and parasites commonly seen in a clinical microbiology laboratory.

MT 427 - Instrumentation & Automat BY - 1
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.

MT 430 - Immunohematology - 7
Immunogenetics, serological characteristics, and clinical significance of blood group antigens and antibodies; pretransfusion testing; antibody identification; immune hemolytic disorders; transfusion therapy. Advanced techniques in pretransfusion problem solving; parentage testing; transfusion service management; medical/legal, regulatory and accreditation requirements. *Prerequisites:* (MT 400 or CLS 550) and MT 325

MT 437 - Clinical Microbiology II - 3
Study of fungal, parasitic, viral, and unusual microbial agents associated with reemerging and emerging infectious diseases; overview of major clinical syndromes;microscopic, macroscopic, biochemical and serological characteristics of organisms; methods used in clinical laboratories for detection, isolation, identification and determining antimicrobial resistance of agents. *Prerequisites:* MT 336

MT 441 - Hematology II - 4
Structure and function of hematopoietic and lymphatic tissue. Stem cell differentiation, hematopoiesis, erythrocyte and leukocyte kinetics. Laboratory diagnosis and case management of anemia, lymphoma, myeloma, acute and chronic cell morphology, cell population scatter plots and histograms, cytochemistry, immunophenotyping, molecular methods, and cytogenetics. Hematology laboratory problem solving. *Prerequisites:* BY 330 and MT 340

MT 454 - Spec Topics: Immunohematology - 1 to 4
Designed specifically for individual student to cover topics not covered in MLT curriculum. Taught with MT 430.

MT 460 - Clinical Correlations - 3
Synthesis of clinical, technical, and analytical proficiencies that comprise clinical laboratory science practice. Analysis of illustrative medical cases through selection, application, and interpretation of clinical laboratory protocols. Validity testing of case analysis by identifying sources of uncertainty, analyzing quality assessment data, and reviewing outcomes. *Prerequisites:* MT 402 and MT 421 and MT 430 and MT 437 and MT 441

MT 470 - Certification Review - 1
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.

MT 495 - Clinical Practices - 1
Directed clinical practice in immunohematology, Immunology, Hematology, Microbiology, and Chemistry; laboratory procedures and methods, problem solving, quality assurance, preventive maintenance, and safety.

Major: Nuclear Medicine Technology

Program Director: Bolus
Medical Director: Bender
Faculty: Bolus, George, Harris, Newcomer

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).

Admission Requirements: The student usually will have completed approximately 70 semester hours before transferring to SHP for four 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 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, and
- if accepted, a background check and/or drug screening may be required prior to clinical placement.

Application Procedure: Applications received in the NMT Program office by February 15 preceding 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, indicating pre-nuclear medicine technology as the major, and application fee, if applicable (if enrolled at UAB in another major, complete a Change of School/Major Request indicating pre-nuclear medicine technology as the major; form available from the Office of Registration and Academic Records), and
- 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), and
- completed clinical tour form (form available from the program office).

Contact for additional information:
Program Director
Nuclear Medicine Technology Program
School of Health Professions Building
University of Alabama at Birmingham
Birmingham, Alabama 35294-1270
Telephone: (205) 934-2004
E-mail: bsnmt@uab.edu
Web address: www.uab.edu/NMTProgram

MAJOR REQUIREMENTS FOR NUCLEAR MEDICINE TECHNOLOGY

Requirement	Fulfilled By:	Hrs.
Grade and Residency Requirements	2.5 GPA overall and in the math/science prerequisites All courses completed with a grade of "C" or better	-
Required Mathematics	Please see your academic advisor	
Required Courses	Take all of the following courses: AHS 330 AHS 318 NMT 485 NMT 400 NMT 431 NMT 491 NMT 404 NMT 432 NMT 492 NMT 405 NMT 441 NMT 493 NMT 410 NMT 442 NMT 499 NMT 421 NMT 443 NMT 422 NMT 451 NMT 423 NMT 460	58
Electives	None	
	Total Major Requirements:	69

Typical Program
Professional Phase

Fall		**Sem. Hrs.**
AHS 330	Health Care Systems	3
NMT 400	Introduction to Clinical Nuclear Medicine Technology	2
NMT 404	Patient Care	2
NMT 410	Medical Radiation Physics	4
NMT 431	Nuclear Medicine Procedures I	4

Spring

AHS 318	Law for Health Care Professionals	3
NMT 421	Instrumentation I	3
NMT 441	Radiation Protection and Biology	3
NMT 442	Applications of Radiation Protection & Biology	1
NMT 443	Regulatory Issues	2
AHS 460	Research Methods	3

Summer

NMT 405	Cross-Sectional Anatomy	3
NMT 432	Nuclear Medicine Procedures II	4
NMT 451	Communication Skills	1
NMT 491	Clinical Practice I	5

Fall

NMT 422	Instrumentation II	3
NMT 423	Computed Tomography	3
NMT 460	Radiopharmacy	2
NMT 492	Clinical Practice II	7

Spring

NMT 493	Clinical Practice III	10
NMT 499	Correlative Imaging	3

Course Descriptions
Nuclear Medicine Technology (NMT)

NMT 400 - Intro Clinic Nuclear Med Tech - 1
Overview of the U.S. health care system; hospital/nuclear medicine department organization and management; professional organizations; medical records; patient positioning/immobilization techniques; professionalism.

NMT 404 - Patient Care - 2
Basic patient care theory and techniques required for radiography and nuclear medicine technology.

NMT 421 - Instrumentation I - 3
Theoretical and practical concepts in radiation detection and 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 422 - Comp Appl/Adv Instrumentation - 3
Clinical application of data processing techniques; principles of tomographic imaging; SPECT/PET image reconstruction, filtering, and attenuation correction; quality control of tomographic systems. *Prerequisites:* NMT 421

NMT 431 - Nuclear Medicine Procedures I - 2
This course is the first of a two course series that teaches students how various nuclear medicine procedures are performed and what the nuclear medicine technologist's responsibilities are in completing a procedure. In this first course, procedures involving the skeletal, respiratory, endocrine, gastrointestinal and genitourinary systems are presented. Anatomy and relevant concepts in physiology are reviewed and applied to each procedure. Common pathologies demonstrated with each procedure are also discussed.

NMT 432 - Nuclear Medicine Procedures II - 6
Applied anatomy and physiology of cardiovascular, respiratory, gastrointestinal, urinary, skeletal, endocrine, central nervous, and hematopoietic systems; clinical indications for nuclear medicine procedures; technical aspects of performing nuclear medicine examinations; pertinent pathology. *Prerequisites:* NMT 431

NMT 441 - Radiation Protection and Biology - 2
This course explores the 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. This course will also overview the genetic and somatic effects of ionizing radiation. Mechanisms of interaction from the sub-cellular level to the organism will be presented. Risk verses benefit of radiation exposure to occupational workers as well as the patients will be discussed. The emphasis of the course will be on understanding of the theory of radiobiology and how this translates into radiation protection practices. Projects and other learning activities are designed to make the transition of knowledge into practical application in the clinical setting easier.

NMT 442 - Applications of Radiation Protection and Biology
This course will introduce the nuclear medicine student to basic radiation physics and radiation protection experiments. Emphasis will be placed of the ALARA concept and how that relates to radiation biology concepts learned in class. The student will learn 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. This includes proper calibration and use of the Multi Channel Analyzer (MCA) and Geiger Muller (G-M) Counter. The student will learn how to determine the proper operating voltage, detector efficiency, and window width. Proper counting statistics and duel isotope counting labs will emphasize the importance of proper use of nuclear counting instrumentation.

NMT 443 - Regulatory Issues
This course provides students the necessary education and background to plan for and participate in successful radiation safety compliance management program in Nuclear Medicine Laboratories in the country. At the conclusion of the course, students will have basic knowledge of appropriate rules, regulations, and work practices governing use of radioactive materials in the medical setting.

NMT 451 - Seminar I - 1
Patient interaction, communication, and interviewing skills.

NMT 452 - Seminar II - 1
Introduction to medical law and ethics; issues and codes of conduct in health facilities.

NMT 453 - Seminar III - 1
Review of current literature applied to case study presentation.

NMT 460 - RadioChem and Radiopharmacy - 3
Fundamental concepts of radiopharmaceutical production; basic radiochemistry; radionuclide generator systems; design criteria of radiopharmaceuticals and mechanism of localization; labeling and quality control of Tc-99m radiopharmaceuticals, radiochemical and radionuclidic purity, sterility, and pyrogenicity.

NMT 491 - Clinical Practice I - 5
Directed clinical practice: in vivo procedures; instrumentation quality control; radiopharmacy; applied radiation safety procedures.

NMT 492 - Clinical Practice II - 4 to 6
Directed clinical practice: in vivo procedures; instrumentation quality control; radiopharmacy; applied radiation safety procedures. *Prerequisites:* NMT 491

Major: Radiologic Sciences / Advance Imaging

Interim Program Director: Harris
Faculty: Harris, Wilson

Radiologic Sciences is a broad-based discipline that includes professional certification options at entry-level and in advanced modalities. The SHP Radiologic Sciences / Advanced Imaging Program prepares graduates with training in two advanced modalities – computed tomography(CT) and ultrasonography (US). Applicants to either of the Advanced Imaging options must be credentialed by the American Registry of Radiologic Technologists (ARRT) as a radiographer, or as a nuclear medicine technologist by Nuclear Medicine Technology Certification Board (NMTCB), and currently in good professional standing. Program graduates will be eligible for American Registry of Radiologic Technologists (ARRT) post-primary certificate examinations in computed tomography or sonography.

Admission Requirements:
Application Procedure: Completed applications received by March 1 preceding the expected term of enrollment for the professional phase are given first priority. Applications received after this date are considered on a space-available basis. Applicants should submit the following materials:

To the UAB Undergraduate Admissions Office:

- completed UAB undergraduate application form, indicating pre-radiologic sciences / advanced imaging as the major, and application fee, if applicable (if enrolled at UAB in another major, complete a Change of School/Major Request indicating pre-radiography as the major; form available from the Office of Registration and Academic Records), and
- official transcripts from each college or university attended.

To the Radiologic Sciences / Advanced Imaging Program, School of Health Professions:

- completed application to the professional phase of the Radiologic Sciences, / Advanced Imaging Program (form available from the program office), and
- proof of professional credentials and current licensure as a radiographer or nuclear medicine technologist.

Requirements for Admission: Acceptance will be based upon the student's professional credentials, academic ability, and aptitude for a career as an advanced modality radiographer. The candidate is expected to satisfy the following requirements:

- have a minimum cumulative grade point average of 2.5 (A=4.0) for all prerequisite courses,
- have a minimum grade of C in each prerequisite course,
- complete personal interviews with members of the selection committee,
- submit documentation of professional certification and licensure,
- 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, and
- if accepted, a background check and drug screening may be required prior to clinical placement.

Contact for additional information:
Program Director
Advanced Imaging Program—B.S. in Radiologic Sciences
School of Health Professions Building
University of Alabama at Birmingham
Birmingham, Alabama 35294-1270
Telephone: (205) 934-3595
E-mail: bsrad@uab.edu
Web address: http://www.uab.edu/advimg

Major: Radiologic Sciences / Radiation Therapy

Program Director: Cartright
Medical Director: Spencer
Faculty: Cartright, Glasscock

The radiation therapy program in SHP is one of two nationally accredited degree programs in Alabama. It is one of only 23 accredited programs in the nation at the baccalaureate level. Radiation therapists work under the direction of an oncologist to treat patients with malignant diseases using ionizing radiation. Therapists interact regularly with cancer patients and face special demands and daily challenges. Graduates are employed in hospitals, private radiation oncology centers, research, industry, education, and management.

The program is accredited by the Joint Review Committee on Education in Radiologic Technology. Program graduates are eligible to apply for the certification examination in radiation therapy administered by the American Registry of Radiologic Technologists (ARRT).

Admission Requirements: Applicants must satisfy the following requirements:

- have completed 60 semester hours of prerequisite coursework with specific courses in science and mathematics,
- be certified or certification eligible in radiography by the American Registry of Radiologic Technologists (ARRT)
- submit documentation of sixteen hours of observation in a variety of cancer centers,

- complete an interview with the selection committee,
- have a minimum cumulative grade point average in prerequisite courses of 2.7 (A=4.0)
- have a minimum grade of C in each prerequisite and previous professional coursework to be transferable,
- 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, and
- if accepted, a background check and/or drug screening may be required prior to clinical placement.

Application Procedure: Completed applications received by March 1 preceding the term in which admission for the professional phase of the program is desired are given first priority. Applications received after that date will be considered on a space-available basis.

Applicants should submit the following materials:

To the UAB Undergraduate Admissions Office:

- completed UAB undergraduate application form, indicating pre-radiation therapy as the major, and application fee, if applicable (if enrolled at UAB in another major, complete a Change of School/Major Request indicating pre-radiation therapy as the major; form available from the Office of Registration and Academic Records), and
- official transcripts from each college or university attended.

To the Radiation Therapy Program, School of Health Professions:

- completed application to the professional phase of the Radiation Therapy Program (form available from the program office or on the Radiation Therapy Program website (www.uab.edu/rtt),
- documentation of observation tour of clinical facilities, and
- three letters of reference.

Contact for additional information:
Program Director
Radiation Therapy Program—B.S. in Radiologic Sciences
School of Health Professions Building
University of Alabama at Birmingham
Birmingham, Alabama 35294-1270
Telephone: (205) 934-3443
E-mail: bsrtt@uab.edu
Web address: www.uab.edu/rtt

MAJOR REQUIREMENTS FOR RADIATION THERAPY PROGRAM

Requirement	Fulfilled By:	Hrs.
Grade and Residency Requirements	GPA of 2.7 All courses completed with a grade of "C" or better	-
Required Mathematics	See your academic avisor	
Required Courses	Take all of the following courses: RAD 301 RTT 301 RTT 492 RTT 351 RAD 302 RTT 330 RTT 410 RTT 447 RAD 401 RAD 460 RTT 350 RTT 450 RAD 436 RTT 320 RTT 302 AHS 302 RTT 300 RAS 485 RTT 440 AHS 411 RTT 345 RTT 497	76
Electives	See your academic advisor	
	Total Major Requirements:	76

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	No minor required
General Electives	Students must take general electives to reach the 120 semester hour requirement.

Typical Program

Professional Phase

Fall		**Sem. Hrs**
AHS 302	Principles of Management in Healthcare	3
AHS 330	Health Care Systems	3
NMT 404	Patient Care	2
NMT 410	Medical Radiation Physics	3
RTT 301	Introduction to Radiation Therapy	2
RTT 300	Imaging for the Radiation Therapist	2
Spring		
AHS 318	Law for Health Care Professionals	3
RTT 406	Radiation Protection and Biology	3
RTT 405	Applications of Radiation Protection & Biology	1
AHS 460	Research Methods	3
RTT 345	Radiation Oncology I	3
RTT 330	Radiation Therapy Physics	3
Summer		
RTT 402	Cross-sectional Anatomy	3
RTT 440	Radiation Oncology II	3
RTT 302	Simulator Applications	3
RTT 410	Treatment Planning	3
RTT 497	QA Management	2
RTT 350	Clinical Education I	2
Fall		
RTT 403	Computed Tomography	3
RTT 477	Emerging Technologies	2
RTT 351	Clinical Education II	7
Spring		
RTT 498	Correlative Imaging	3
RTT 477	Registry Review	2
RTT 450	Clinical Education III	7

Course Descriptions
Radiation Therapy—Radiologic Sciences (RTT)

RTT 300 - Imaging in Radiation Therapy - 2
Provides knowledge of factors that govern and influence the production of images in radiation oncology. All imaging modalities will be introduced, with emphasis given to radiographic and fluoroscopic image production.

RTT 301 - Intro to Radiation Therapy - 3
Overview of radiation therapy history and its role in medicine; academic and administrative structure, key departments, and personnel; psychosocial issues with emphasis on grief and dying process; the profession.

RTT 320 - Human Pathophysiology - 3
Introduction to basic disease concepts, theories of disease causation and pathophysiologic disorders most frequently encountered in clinical practice. *Prerequisites:* BY 115 and BY 116

RTT 330 - Radiation Therapy Physics - 3
Fundamental concepts of radiation interaction, production and measurement, clinical equipment photon and electron beam therapy, and brachytherapy.

RTT 345 - Radiation Oncology I - 3
Study of carcinogenesis, natural history of cancer, epidemiology, etiology, pathology, screening and early detection, principles of treatment, prognosis, psychosocial issues, and individual cancers.

RTT 350 - Clinical Education I - 1 to 3
Clinical practice in radiation oncology; introduction to clinical equipment, techniques, and personnel; orientation to methods of treatment and simulation.

RTT 351 - Clinical Education II - 10
Fundamental clinical practice in radiation oncology; malignant conditions, methods of treatment, simulation, treatment planning, patient prognosis, treatment results. *Prerequisites:* RTT 350

RTT 390 - Basic Concepts Review - 3
Independent study review for students readmitted to the program, including introductory principles of radiation therapy, oncology, simulator applications, and radiotherapeutic calculations.

RTT 401 - Medical Radiation Physics - 3
Qualitative and quantitative concepts of radiation physics pertaining to medical applications in nuclear medicine, radiology, and radiation therapy; atomic and nuclear structure; radioactive decay; properties of radiation; x-ray production; artificial production; photon interactions in matter and shielding; attenuation processes. *Prerequisite:* PH 201/202

RTT 406 - Radiation Protection & Biology - 3
This course explores the principles and methods of radiation protection, health physics units, measurement, and dose-limiting regulations for occupationally and nonoccupationally exposed individuals; radiation surveys; techniques and decontamination methods; monitoring of radioactive waste, radiation does 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. This course will also overview the genetic and somatic effects of ionizing radiation. Mechanisms of interaction from the subcellular level to the organism will be presented. Risk versus benefit of radiation exposure to occupational workers as well as patients will be discussed. The emphasis of the course will be on understanding the theory of radiobiology and how this translates into radiation protection practices. Projects and other learning activities are designed to make the transition of knowledge into practical application in the clinical setting easier.

RTT 410 - Treatment Planning - 4
Concepts of radiotherapeutic dose calculation and planning for optimal delivery of radiation treatment prescription utilizing wide range of external beam techniques; treatment planning considerations for most commonly occurring cancers. *Prerequisites:* RTT 330

RTT 440 - Radiation Oncology II - 3
Fundamental clinical practice in radiation oncology, continuation of epidemiology, etiology, symptoms, histology, pathology, diagnosis, staging, survival, and treatment setups for specific cancers. *Prerequisites:* RTT 345

RTT 450 - Clinical Education III - 10
Fundamental clinical practice in radiation oncology: malignant conditions, methods of treatment, simulation, treatment planning, patient prognosis, treatment results. *Prerequisites:* RTT 351

RTT 451 - Clinical Education IV - 6
The course provides students the opportunity to continue to develop confidence and increased skill in simulation and treatment delivery. Students will demonstrate competence in beginning, intermediate, and advanced procedures in both areas. Students will participate in advanced and specialized treatment procedures. *Prerequisite:* RTT 450.

RTT 477 - Concept Integration - 2
Integration of principles and tenets of radiation therapy concepts that have been presented throughout curriculum.

RTT 492 - Quality Mgt Radiation Therapy - 3
Concepts of quality management program that incorporates operations of radiation therapy facility; quality control activities related to equipment performance.

RTT 497 - Adv Radiotherapy Techniques - 3
Complex topics in treatment planning and treatment delivery, including 3-D conformal treatment, intensity modulated radiation therapy, stereotactic radiosurgery, brachytherapy, and total body irradiation.

Major: Respiratory Therapy

Program Director: Granger
Medical Director: McArdle
Faculty: Granger, King, Laken, Waugh,

The Respiratory Therapy Program prepares graduates to work in all clinical settings where respiratory therapy services are provided, collaborating with physicians and other health professionals to diagnose and treat patients with disorders associated with the respiratory and cardiovascular systems. The SHP program is one of only two baccalaureate respiratory therapy programs in Alabama, and is accredited by the Commission on Accreditation of Allied Health Education Programs in collaboration with the Committee on Accreditation for Respiratory Care (CoARC). Program graduates are eligible to apply for the Entry Level Examination administered by the National Board for Respiratory Care (NBRC) and recognition as a Certified Respiratory Therapist (CRT). Upon attainment of the CRT credential, the graduate is eligible to apply for the Advanced Practitioner Examination of the NBRC and recognition as a Registered Respiratory Therapist (RRT).

- 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 and,
- if accepted, a background check and/or drug screening may be required prior to clinical placement.

Application Procedure: Application to the professional phase of the program may be made at any time during the year. Applications are considered on a space available basis. Applications will be reviewed and considered for acceptance as they are received. Applicants should submit the following materials:

To the UAB Undergraduate Admissions Office:

- completed UAB undergraduate application form, indicating pre-respiratory therapy as the major, and application fee, if applicable (if enrolled at UAB in another major, complete a Change of School/Major Request indicating pre-respiratory therapy as the major; form available from the Office of Registration and Academic Records), and
- official transcripts from each college or university attended.

To the Respiratory Therapy Program, School of Health Professions:

- completed application to the professional phase of the Respiratory Therapy Program (form available from the program office), and
- $25 non-refundable program application fee.

Contact for additional information:

Program Director
Respiratory Therapy Program
School of Health Professions Building
University of Alabama at Birmingham
Birmingham, Alabama 35294-1270
Telephone: (205) 934-3783
E-mail: bsrst@uab.edu
Web address: www.uab.edu/rt

Typical Program
Professional Phase

First Year		
Fall		**Sem. Hrs.**
RST 311	Principles of Patient Assessment	3
RST 312	Basic Respiratory Care Procedures	4
RST 313	Basic Respiratory Care Procedures Laboratory	3
RST 314	Respiratory Care Pharmacology	3
MT 400	Health and Safety Management	1
Spring		
RST 321	Clinical Practicum in Respiratory Care I	4
RST 322	Cardiopulmonary Anatomy & Physiology	3
RST 323	Airway Management	2
RST 324	Pulmonary Pathology	2
RST 325	Directed Study in Respiratory Care I	1
RST 326	Airway Management Laboratory	2
Summer		
RST 331	Clinical Practicum in Respiratory Care II	4
RST 332	Mechanical Ventilation	4
RST 333	Mechanical Ventilation Laboratory	3
RST 334	Critical Care Monitoring	2
Second Year		
Fall		
RST 411	Clinical Practicum in Respiratory Care III	4
RST 412	Advanced Mechanical Ventilation	4
RST 413	Special Procedures & Pulmonary Function Testing	3
RST 414	Special Procedures Laboratory	2
RST 415	Directed Study in Respiratory Care II	2

Spring

RST 421	Clinical Practicum in Respiratory Care IV	4
RST 422	Long Term & Preventive Care	2
RST 423	Perinatal/Pediatric Respiratory Care	3
RST 424	Long Term & Pediatric Laboratory	2
RST 425	Laboratory Proficiency Practice	2
RST 426	CRT Exam Review	1
RST 427	Review of Critical Care Concepts	1

Summer

RST 431	Clinical Internship	6
RST 432	Directed Study in Respiratory Care III	2

Select one of the following based on career goals:

RST 440	Asthma Education Certification	4
RST 445	Educational Methods in Respiratory Care	4
RST 433	Research for Respiratory Therapists	4

Course Descriptions
Respiratory Therapy (RST)

RST 311 - Prin of Patient Assessment - 3
Patient care procedures, physical assessment, laboratory assessment, communication skills and charting, and professionalism in Respiratory Care.

RST 312 - Basic Respiratory Care Proc - 4
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 Cre Proc Lab - 3
Laboratory practice of respiratory care procedures included in RST 311 and RST 312; airway management techniques and procedures; 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 321 - Clinical Prac Respiratory Care - 4
Practical application of respiratory care performed under supervision at clinical sites and proficiency evaluations of selected respiratory care procedures.

RST 322 - Cardiopulm Anatomy/Physiology - 3
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
Selection, application, maintenance, and discontinuance of various artificial airways, including intubation, extubation, tracheostomy care, and suctioning.

RST 324 - Pulmonary Pathology - 2
Diseases affecting respiratory system, including symptoms, signs, laboratory tests, etiology, and treatment; emphasis on diseases commonly encountered by practicing respiratory therapists. *Prerequisites:* BY 216

RST 325 - Dir Study Respiratory Care I - 1
Study of conditions and therapeutic measures frequently confronting respiratory care practitioner; student case study presentations and discussions.

RST 326 - Airway Mgt Adv Procedures Lab - 2
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 Prac Resp Care II - 4
Clinical refinements of concepts and procedures in cardiopulmonary care with emphasis on advanced procedures in adult and neonatal critical care.

RST 332 - Mechanical Ventilation - 4
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 Lab - 3
Laboratory practice of mechanical ventilation procedures and reinforcement of material covered in RST 332.

RST 334 - Critical Care Monitoring - 2
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 Prac Respir Care III - 4
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 - Adv Mechanical Ventilation - 4
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 - Spec Proc/Pulmon Fctn Testing - 3
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 Lab - 2
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 - Dir Study Respiratory Care II - 2
Study of conditions and therapeutic measures frequently confronting respiratory care practitioner; student case study presentations and discussions.

RST 421 - Clin Prac Respiratory Care IV - 3 to 4
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 423 - Perinatal/Pediatric Resp Care - 3
Anatomy, physiology, embryonic development of human fetus, with emphasis on embryonic lung development; transition from fetal to extra-uterine life;prenatal and perinatal history. Etiology, pathophysiology, clinical presentation, radiologic assessment and management of neonatal and pediatric lung diseases. Obstructive airway diseases in infants and children. Congenital heart diseases; sudden infant death syndrome and apnea disorders; Reye s Syndrome and other eurologic/ neuromuscular disorders.

RST 424 - Long Term and Pediatric Lab - 2
Laboratory practice of respiratory care procedures and reinforcement of material covered in Long Term and Preventative care and Pediatrics.

RST 425 - Lab Proficiency Practice - 2
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
Review of all respiratory therapy topics covered on CRT Entry Level exam that student must take before graduation.

RST 427 - Review Crit Care Concepts - 1
Concepts involved in care of critically ill patients, including hemodynamic monitoring, fluid and electrolyte studies, metabolic studies, and mechanical ventilation concepts.

RST 431 - Clinical Internship - 5 to 6
Final clinical experience before graduation; student will choose specialization area, such as neonatal, adult critical care, pediatrics, and pulmonary function.

RST 432 - Dir Study Respiratory Care III - 2
Study of conditions and therapeutic measures frequently confronting respiratory care practitioner; student case study presentations and discussions.

RST 433 - Res for Respiratory Therapists - 4
This course will introduce the student to clinical research methods and review concepts involved in descriptive and inferential Statistics. Topics covered include, overview of the research process, literature review, research hypothesis, research designs, sample selection, measurement methods, descriptive statistics, and inferential statistics.

RST 440 - Asthma Certification Prep Crs - 4
The content of this course will cover the asthma condition, pathophysiology of asthma, factors that contribute to acute and chronic asthma, patient history, physical examination of the asthma patient, objective measures to identify and assess asthma severity, how to assess the patient s education needs, asthma management, medications and delivery devices, proper spirometry techniques and performance and asthma protocols.

RST 445 - Educ Methods Respiratory Care - 4
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.

RST 460 - Polysomnographic Technology I - 2
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-level polysomnographic technologist skills.

RST 461 - Polysomnographic Tech Clin I - 2
Course provides student with patient contact in sleep lab. Student will observe, perform (under supervision), and evaluate entry-level aspects of sleep studies.

School of Natural Sciences and Mathematics

Dean: Lowell E. Wenger
Associate Dean: Charles L. Watkins

The School of Natural Sciences and Mathematics offers outstanding programs of study leading to the Bachelor of Science, Master of Science, and Doctor of Philosophy degrees (http://www.uab.edu/nsm).

At the undergraduate level, the School offers majors and minors in biology, chemistry, computer and information sciences, mathematics, and physics as well as a general major in natural science. Within each discipline there are several tracks and concentrations that are designed to prepare students for successful admission to professional school programs such as medicine, dentistry, and optometry; to graduate programs in the sciences and biomedical sciences; and for successful entry into the workplace. Fifth year programs where students can obtain both Bachelors and Masters degrees are offered in the Departments of Biology and Mathematics.

The School of Natural Sciences and Mathematics supports strongly the three UAB University-wide Honors Programs. In addition, each department offers an honors experience which provides students with the opportunity to graduate with departmental honors. Students work directly with faculty in NSM or throughout the University to conduct research and perform other scholarly activities.

The School is dedicated to providing each student with a positive learning experience. NSM majors at the University of Alabama at Birmingham have available considerable academic support, varied activities to engage the student in the fabric of departmental life, and many professional development opportunities. As incoming freshmen, students are encouraged to participate in the "Early Success Workshop" to help them make the appropriate transitions into university life, develop strong study habits, and promote peer-learning opportunities. Throughout their undergraduate careers, students are encouraged to join student affiliate organizations, attend career seminars and workshops each semester, enroll in MCAT and GRE preparation courses, learn leadership skills through supervised experiences, and conduct undergraduate research. The School has strong academic advising, excellent faculty, and modern laboratory facilities. The School also sponsors Study Abroad. Outstanding students in the NSM Departments are recognized through the annual Departmental Awards Ceremonies and the School of Natural Science and Mathematics Honors Reception.

The School of Natural Sciences and Mathematics also offers a minor in environmental science and course offerings in astronomy, earth science, and geology, although there are no separate degrees in these fields. The Departments of Mathematics and Physics require a minor as an additional graduation requirement.

At the graduate level, programs of study lead to the degrees of Master of Science in mathematics and Master of Science and Doctor of Philosophy in biology, chemistry, computer and information sciences, applied mathematics, and physics. Further information on these graduate programs may be obtained from the respective department offices, the UAB Graduate School Catalog, or on the Web (http://www.uab.edu/nsm).

The School-wide courses for each track, the UAB Core Curriculum requirements, and the specific major requirements for graduation are listed below for each B.S. degree option.

CORE CURRICULUM

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses (must earn a C or better): **EH 101** **EH 102**	6
Area II: Literature	Select one of the following courses: **EH 216** **EH 218** **EH 222** **EH 224** **EH 217** **EH 221** **EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101** **ARH 204** **MU 120** **THR 105** **ARH 203** **ARH 206** **THR 100** **THR 200**	3
Area III: Mathematics	Select one of the following courses: **MA 105** **MA 107** **MA 110** **MA 126** **MA 252** **MA 106** **MA 109** **MA 125** **MA 227** **MA 260**	3

Area III: Natural Sciences	Select two of the following courses (with laboratories): **AST 101/AST 111 CH 115/CH 116** **AST 102/AST 112 CH 117/CH 118** **AST 103/AST 113 ENV 108/ENV 109** **AST 105/AST 115 ES 101/ES 102** **BY 101/BY 102 ES 103/ES 104** **BY 111/BY 112 PH 201/PH 201L** **BY 123 PH 202/PH 202L** **BY 124 PH 221/PH 221L** **CH 105/CH 106 PH 222/PH 222L** **CH 107/CH 108 PHS 101**	8
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 105 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 EC 211 HY 120 PSC 121 PY 212** **ANTH 106 GEO 121 HY 121 PSC 122 SOC 100** **ANTH 120 HY 101 ITS 101 PSC 212 SOC 245** **EC 210 HY 102 ITS 205 PY 101 WS 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100**	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 120 + HY 121** **EH 223 + EH 224**	-
	Total Core Curriculum Requirements:	**41**

SCHOOL-WIDE REQUIREMENTS FOR NATURAL SCIENCES & MATHEMATICS

Requirement	Fulfilled By:	Hrs.
School-Wide Requirements:	Students must satisfy two of the three tracks listed below. A student may NOT use the same course to satisfy this requirement and other requirements within the core curriculum; however, a course may apply toward this requirement and a requirement within the major.	0
Track A: Foreign Language and Culture	Track A may be satisfied by completing one of the following courses: **ANTH 101 FR 106 FR 320 HY 258 SPA 202** **ANTH 106 FR 108 GN 102 HY 263 SPA 206** **ANTH 120 FR 201 GN 201 HY 265 SPA 210** **ANTH 241 FR 202 GN 202 JS 115 SPA 300** **ANTH 243 FR 210 GN 203 PY 213 SPA 304** **ANTH 244 FR 220 GN 204 PY 319 SPA 310** **ANTH 248 FR 305 GN 205 SOC 200 SPA 311** **ANTH 249 FR 306 GN 206 SOC 325 SPA 312** **ARH 203 FR 307 HY 245 SPA 102 SPA 313** **ARH 205 FR 308 HY 247 SPA 108 SPA 314** **ARH 206 FR 310 HY 248 SPA 180** **FLL 220 FR 311 HY 257 SPA 201** **FR 102**	3

Area II: Fine Arts and Humanities	Select two of the following courses: **AAS 200 CHI 102 EH 222 GN 101 JPA 102 PHL 203** **ARA 101 CHI 201 EH 223 GN 102 JPA 201 SPA 101/SPA 111** **ARA 102 CHI 202 EH 224 GN 201 JPA 202 SPA 102** **ARH 101 CM 101 FLL 120 GN 202 MU 120 SPA 201** **ARH 203 CM 105 FLL 220 GN 204 PHL 100 SPA 202** **ARH 204 EH 216 FR 101 ITL 101 PHL 115 THR 100** **ARH 206 EH 217 FR 102 ITL 102 PHL 116 THR 105** **AS 200 EH 218 FR 201 ITL 201 PHL 120 THR 200** **CHI 101 EH 221 FR 202 JPA 101 PHL 125**	6-8
Track B: Philosophy and Critical Reasoning	Track B may be satisfied by completing one of the following courses: **CM 103 PHL 203 PHL 232 PHL 308 PHL 343** **PHL 100 PHL 204 PHL 233 PHL 314 PHL 348** **PHL 115 PHL 205 PHL 239 PHL 315 PHL 350** **PHL 116 PHL 208 PHL 240 PHL 335 PHL 372** **PHL 125 PHL 215 PHL 270 PHL 341 PHL 375** **PHL 135 PHL 230 PHL 305 PHL 342 PSC 104**	3
Track C: Computers	Track C may be satisfied by completing one of the following courses (alternatively, students may satisfy this track by completing a computer technologies competency examination, where permissible; this option will reduce the number of hours required in the School-Wide Requirements by three): **ARS 103 CS 101 HY 125 MU 115** **BY 245 CS 201 MA 360 MA 361**	0-4
	TOTAL SCHOOL-WIDE REQUIREMENTS HOURS:	**10**

Natural Science

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 departmental major in the School of Natural Sciences and Mathematics.

Requirements are successful completion of 30 semester hours approved and offered by one department (designated the major) and 27 semester hours approved and offered by a second department (designated the minor) within the School of Natural Sciences and Mathematics. At least 9 semester hours of the major must be at the 400 level or above.

Because departments within the school 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.

Teacher Certification

UAB offers baccalaureate level (Class B) secondary (grades 6-12) teacher certification in biology, chemistry, mathematics, and physics. To obtain certification, students must double major in their teaching field and in secondary education. Requirements for the major in the School of Natural Science and Mathematics 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 Office of Student Services (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 Office of Student Services for more information about program admission requirements.

Environmental Science

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.

MINOR REQUIREMENTS FOR ENVIRONMENTAL SCIENCE

Requirement	Fulfilled By:	Hrs.
Grade Requirement	All courses applied to this minor must be completed with a grade of C or better.	-
Required Biology courses	Take all of the following courses: **BY 123** **ENV 108 + ENV 109** **CH 115 + CH 116** **BY 124** **ES 101 + ES 102** *Note: All of these courses may also satisfy the Core Curriculum Area III: Natural Sciences requirement; check the Core Curriculum for your particular major.*	20
Biology Electives	Select 9 hours from the following groups. Biology majors may not select from the Biology course list and Chemistry majors may not select from the Chemistry course list. Biology: **BY 260** **BY 397** **BY 435** **BY 452** **BY 465** **BY 470** Civil Engineering: **CE 433** **CE 434** Chemistry **CH 297** **CH 355** Geology: **GL 311** **GL 404** Marine Environmental Science: **MESC 302** **MESC 411** **MESC 412** **MESC 417**	9
	Total Minor Requirements:	**29**

Students may pursue a major in environmental science through an individually designed major. Call Academic Programs & Policy for information about individually designed majors, (205) 934-5503.

Course Descriptions
Environmental Science (ENV)

ENV 108 - Human Population and the Earths' Environment - 3
Influence of human population on Earth's environment: ecological principles, population dynamics, climate change, water and energy resources, pollution, climate change, water and energy resources, pollution, waste disposal, plant and animal extinctions, and food resources. Lecture and films.

ENV 109 - Lab in Environmental Science - 1
Experiments on topics essential to study of environment and which reveal complexity of solving environmental problems.
Prerequisites: ENV 108

Department of Biology

Chair: Robert Fischer, Jr.
Faculty: Amsler, Angus, Bej, Cusic, Ghanta, Gilchrist, Jenkins, Kraus, Marion, McClintock, Powell, Thacker, Tollefsbol, Watson, Watts, Wibbels

The Department of Biology has dedicated research and teaching faculty whose interests range from the molecular to the ecological level. The core of our faculty are involved in some aspect of aquatic biology. Many of our faculty have been recognized by the University and regional biological organizations for their excellence in teaching. The curriculum in biology provides general course offerings for non-majors and prepares the major for graduate study in biology; the professional schools of medicine, dentistry, optometry, and allied health sciences; teaching in the secondary schools; and other careers dependent upon basic training in the biological sciences. These careers include the areas of teaching, veterinary medicine, environmental education, and wildlife management/protection in both the public and private sectors. Also, the Department of Biology has a well established Honors Program for those students who excel in academics. This program allows students to perform research under the mentorship of Departmental or Medical Center faculty and graduate with departmental honors.

The department offers the following B.S. degrees in biology as well as a minor in biology:

I. Major in Biology – General Track
II. Major in Biology with a Marine Science Concentration
III. Major in Biology with a Molecular Biology Track

MAJOR REQUIREMENTS FOR BIOLOGY - GENERAL TRACK

Requirement	Fulfilled By:	Hrs.
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.	-
Mathematics	Take the following courses as part of the core requirement **MA 125 or MA 123 + MA 124** *Note: Completion of **MA 125 or MA 123 and MA 124** automatically satisfies the Core Curriculum Area III: Math requirement and the Biology Major Requirement*	4-6
Chemistry	Take all of the following courses (with laboratories): **CH 115 + CH 116** **CH 235 + CH 236** **CH 117 + CH 118** **CH 237 + CH 238**	16
Physics	Take both of the following courses (with laboratories): **PH 201 + PH 202** Or take both of the following courses (with laboratories): **PH 221 + PH 222**	8
Biology Requirement	Biology Majors must complete 40 hours in **Biology (BY)** courses approved for the major, including **BY 123** and **BY 124** (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. Warning: You cannot apply BY 101, 102, 107, 111, 112, 116, 216, 261, or 307 toward the Biology major	40
Genetics	Take the following course: **BY 210**	-
Ecology & Evolution	Select one of the following courses: **BY 407** **BY 429** **BY 435** **BY 470**	-
Organismal	Select one of the following courses: **BY 255** **BY 256** **BY 260** **BY 271** **BY 442**	-
Physiology and Development	Select one of the following courses: **BY 314** **BY 405** **BY 409** **BY 410** **BY 450**	-
Cellular/Molecular	Select one of the following courses: **BY 311** **BY 330**	-
	Total Major Requirements:	**68-74**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives to reach the 120 semester hour requirement.

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 MARINE SCIENCE CONCENTRATION

Requirement	Fulfilled By:	Hrs.
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.	-
Mathematics	Take the following courses as part of the core requirement **MA 125 or MA 123 + MA 124** *Note: Completion of **MA 125 or MA 123 and MA 124** automatically satisfies the Core Curriculum Area III: Math requirement and the Biology Major Requirement*	4-6
Chemistry	**Take all of the following courses (with laboratories)** **CH 115 + CH 116 CH 235 + CH 236** **CH 117 + CH 118 CH 237 + CH 238**	16
Physics	Take both of the following courses (with laboratories): **PH 201 + PH 202** Or take both of the following courses (with laboratories): **PH 221 + PH 222**	8
Biology Requirements	Biology Majors must complete 40 hours in **Biology (BY)** or **Marine Environmental Science (MESC)** courses approved for the major. These hours include **BY 123** and **BY 124** (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. Warning: You cannot apply BY 101, 102, 107, 111, 112, 116, 216, 261, or 307 toward the biology major.	40
Marine Technical Methods	Take the following course: **MESC 417**	-
Marine Science Electives	Select at least four **Marine Environmental Science (MESC)** courses approved by the academic advisor.	-
Genetics	Take the following course: **BY 210**	-
Ecology & Evolution	Select one of the following courses: **BY 407 BY 429 BY 435 BY 470** **MESC 411 MESC 412**	-
Organismal	Select one of the following courses: **BY 255 BY 256 BY 260 BY 271** **BY 442 MESC 402 MESC 407 MESC 413**	-
Physiology and Development	Select one of the following courses: **BY 314 BY 405 BY 409 BY 410** **BY 450**	-
Cellular/Molecular	Select one of the following courses: **BY 311 BY 330**	-
	Total Major Requirements:	**68-74**

ADDITIONAL REQUIREMENTS

Requirement	**Fulfilled By:**
General Electives	Students must take general electives to reach the 120 semester hour requirement.

MAJOR REQUIREMENTS FOR BIOLOGY WITH MOLECULAR BIOLOGY TRACK

Requirement	Fulfilled By:	Hrs.
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.	-
Mathematics	Take the following courses: **MA 125 or MA 123 + MA 124** *Note: Completion of **MA 125 or MA 123 and MA 124** automatically satisfies the Core Curriculum Area III: Math requirement and the Biology Major Requirement.*	4-6
Chemistry	Take all of the following courses (with laboratories): **CH 115 + CH 116** **CH 235 + CH 236** **CH 460 or CH 461** **CH 117 + CH 118** **CH 237 + CH 238**	19
Physics	Take both of the following courses (with laboratories): **PH 201 + PH 202** Or take both of the following courses (with laboratories): **PH 221 + PH 222**	8
Biology Requirements	Biology Majors must complete 40 hours in **Biology (BY)** courses approved for the major, including **BY 123** and **BY 124** (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. Warning: You cannot apply BY 101, 102, 107, 111, 112, 116, 216, 261, or 307 toward the biology major.	40
Required Molecular Track Courses	Take all of the following courses: **BY 210** **BY 245** **BY 271** **BY 311** **BY 330**	-
Molecular Track Elective	Select three of the following courses: **BY 416** **BY 431** **BY 433** **BY 440**	
Elective Courses	Electives in Biology to total 40 hours	
	Total Major Requirements:	**71-77**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives to reach the 120 semester hour requirement.

MINOR REQUIREMENTS FOR BIOLOGY

Requirement	Fulfilled By:	Hrs.
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.	-
Required Biology courses	Take all of the following courses: **BY 123** **BY 124** **BY 210** *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.*	11
Biology Electives	Select 6 hours from 200-level or higher **Biology (BY)** courses. BY 216 does not count toward the minor. Not more than a total of three hours in **BY 397**, **BY 398**, and **BY 498** may be counted toward the minor.	6
	Total Minor Requirements:	**17**

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.

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; and
- 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; and
- an oral or poster presentation at Biology Research Day.

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; E-mail twibbels@uab.edu.

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.

Bioinformatics Specialization

Through a collaborative program with the Department of Computer and Information Sciences, biology majors have an opportunity to complete a B.S degree in Biology and an M.S. degree in Computer and Information Sciences with a specialization in Bioinformatics. This program prepares individuals for a career in the high-demand bioinformatics job market. Biology undergraduate majors can satisfy the undergraduate background in computer science required by taking the following computer science courses (equivalent to a minor): CS 201, CS 250, CS 302, CS 303, CS 330, and CS 350. At least one course in molecular biology is highly recommended. Biology majors are then qualified to begin the bioinformatics specialization within the M.S. in Computer and Information Sciences degree. For additional information, contact the departmental office at (205) 934-8308.

Further information on all Department of Biology programs can be found at www.uab.edu/uabbio.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Course Descriptions
Biology (BY)

A schedule of courses that will be offered each term is available in the department office. Please note: General elective credit refers to courses chosen to complete the minimum 120 hours for a degree in addition to the major, minor, core, and school-wide requirements.

BY 101 - Topics in Contemporary Biology - 3
Selected topics in modern biology, with emphasis on human biology. Only general elective credit for biology major or minor. Not for biology majors or minors (with BY 102, CORE AREA III).

BY 102 - Topics Contemporary Bio Lab - 1
Experiments and demonstrations in contemporary biology. NOTE: Only general elective credit for biology major or minor. Prerequisite: BY 101 or concurrent enrollment (with BY 101, CORE AREA III). 1 hour. *Prerequisites:* BY 101

BY 107 - Trials of Life - 3
Animal form and function, behavior, ecology, and evolution, based on video series "The Trials of Life". Classes include video viewing, lecture, and discussion. NOTE: Only general elective credit for biology major or minor.

BY 111 - Ext Topics Contemp Biology - 3
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). *Prerequisite:* BY 101

BY 112 - Ext Topics Contemp Biology Lab - 1
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). *Prerequisite:* BY 111 or concurrent enrollment.

BY 115 - Human Anatomy - 4
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 Lab - 0
Human Anatomy Lab required with BY 115 lecture.

BY 116 - Human Physiology - 4
Integrated functions of human cells, tissues, and organ systems. Only general elective credit for biology majors or minors. Lecture and laboratory. *Prerequisites:* BY 115 and (CH 105 and CH 106) or (CH 115 and 116) or (CH 117 and CH 118)

BY 116L - Human Physiology Lab - 0
Human Physiology Lab required with BY 116 lecture.

BY 123 - Introductory Biology I - 4
Basic chemistry, cell structure and function, metabolism, genetics, evolution, bacteria, and protists. For major in biology and related fields. Completion of, or concurrent enrollment in, CH 115 or BY 116 with a grade of C or better or equivalent advised. Lecture and laboratory.

BY 123L - Intro Biology I Lab - 0
Introductory Biology I Lab required with BY 123 lecture.

BY 124 - Introductory Biology II - 4
Survey of fungi, plant and animal kingdoms. Anatomy and physiology of higher plants. Major organ systems of animals with emphasis on humans. For major in biology or related fields. Lecture and laboratory. *Prerequisites:* BY 123 with a grade of C or better.

BY 124L - Introductory Biology II Lab - 0
Introductory Biology II Lab required with BY 124 lecture.

BY 210 - Genetics - 3
Principles of inheritance and gene expression; molecular genetics. *Prerequisites:* BY 123

BY 216 - Pathophysiology - 3
Normal function of systems in human body followed by discussion of common alterations in function and how these are manifested in disease states. Only general elective credit for biology majors or minors. *Prerequisites:* BY 116 and (CH 107 and CH 108) or (CH 237 and CH 238)

BY 245 - Fundamental Scientific Investigation - 3
Methods of scientific process, experimental design, data interpretation and presentation, and scientific writing. *Prerequisites:* BY 124

BY 255 - Invertebrate Zoology - 4
Invertebrate phyla, emphasizing evolutionary relationships, biological principles demonstrated by invertebrates, and significance of invertebrates in total ecology. Lecture and laboratory. *Prerequisites:* BY 124

BY 255L - Invertebrate Zoology Lab - 0
Invertebrate Zoology Lab required with BY 255 lecture.

BY 256 - Vertebrate Zoology - 4
Comparative approach to the structure, function, ecology, life history, and conservation of vertebrates. Lecture and laboratory. *Prerequisites:* BY 124 and CH 115 and CH 116

BY 256L - Vertebrate Zoology Lab - 0
Vertebrate Zoology Lab required with BY 256 lecture.

BY 260 - Botany - 4
Development, structure, physiology, and diversity of plants, emphasizing vascular plants. Lecture and laboratory. 4 hours. *Prerequisites:* BY 124

BY 260L - Botany Lab - 0
Botany Lab required with BY 260 lecture.

BY 261 - Intro to Microbiology - 4
Cell structure and function, microbial genetics, viruses, and epidemiology and infectious disease. Cannot be applied toward requirements for a biology major. Lecture and laboratory. *Prerequisites:* BY 116 and BY 123 and (CH 107 and CH 108) or (CH 235 and CH 236) or (CH 237 and CH 238)

BY 261L - Intro to Microbiology Lab - 0
Introduction to Microbiology Lab required with BY 261 lecture.

BY 267 - Tropical Ecology - 3
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). *Prerequisite*: BY 124 and Permission of Instructor.

BY 268 - Galapagos Ecology - 3
An overview of the ecology of the Galapagos Island, with an emphasis on the ecology of terrestrial and marine organisms. Major portion of course conducted on the Galapagos Islands. Lecture & field trips. *Prerequisite:* BY 124 and Permission of Instructor.

BY 269 - Rain Forest Ecology - 3
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). *Prerequisite:* BY 124 and Permission of Instructor

BY 271 - Biology of Microorganisms - 4
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 and CH 117 and CH 118

BY 271L - Biology of Microorganisms Lab - 0
Biology of Microorganisms Lab required with BY 271 lecture.

BY 280 - Biology of Aging - 3
Current understanding of aging, measurement of aging changes, theories of aging, and aging changes in various human systems. *Prerequisite:* BY 123 or permission of instructor

BY 307 - Core Prin of Modern Science - 1
Review for preparation for Medical College Admissions Test. Only general elective credit for biology major or minor. *Prerequisites:* BY 210 and CH 237 and CH 238

BY 311 - Molecular Genetics - 3
Prokaryotic and eukaryotic gene structure and function. *Prerequisites:* BY 210

BY 314 - Embryology - 3
Descriptive and experimental studies of vertebrate development at the molecular, cellular and tissue levels. *Prerequisites:* BY 256 and CH 117 and CH 118

BY 327 - Histology - 4
Microscopic anatomy of cells, tissues, and organs of animals; correlation of structure and function. Techniques and methodology. *Prerequisites:* BY 115 or BY 124

BY 327L - Histology Lab - 0
Histology Lab required with BY 327 lecture.

BY 330 - Cell Biology - 3
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, CH 235, CH 236 (or concurrent enrollment).

BY 346 - Pathophysiology for Prof. Nursing Prac - 3
Basic concepts of pathophysiology including cellular level or response, genetic alterations, fluid and electrolytes, acid-base balance, and immune response in disease processes. The relationship between pathophysiologic concepts and nursing care of clients is emphasized throughout the course.

BY 362 - Neurobiology - 3
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 and CH 235 and CH 236 and PH 201

BY 397 - Advanced Directed Readings - 1 to 3
Reading and independent study in selected areas under supervision of faculty sponsor. May be repeated for total of three semester hours credit. *Prerequisite:* 12 semester hours of BY with BY GPA of 3.0 and permission of instructor.

BY 398 - Undergraduate Research - 1 to 3
Research project under supervision of faculty sponsor. May be repeated for a total of 3 semester hours credit. *Prerequisites:* 12 semester hours of BY with GPA of 3.0 and permission of instructor.

BY 405 - Microbial Physiology - 3
Microbial structure and function, growth, metabolism, and regulation of cellular activity. *Prerequisites:* BY 271 and CH 235 and CH 236

BY 407 - Microbial Ecology - 3
Microorganisms in nature; interactions with each other and with environment. *Prerequisites:* BY 271

BY 409 - Mammalian Physiology - 4
Physiological processes occurring at cell, tissue, organ, and system levels in mammals. Prerequisites: BY 210, CH 237 and 238. Foundation in anatomy recommended (BY 115 or BY 256).

BY 409L - Mammalian Physiology Lab - 0
Mammalian Physiology Lab required with BY 409 lecture.

BY 410 - Comparative Animal Physiology - 3
Comparative examples to illustrate general principles of physiology; study of how animals function in their environment. *Prerequisite:* BY 256 or permission of instructor.

BY 416 - Cellular Physiology - 3
Biochemical and thermodynamic aspects of cellular energy metabolism. *Prerequisites:* BY 330, CH 237 and 238 (or concurrent). Foundation in physiology recommended (BY 124, BY 116, BY 409 or BY 410).

BY 419 - Reproductive Physiology - 3
Comparative reproductive physiology in mammals, with emphasis on humans. *Prerequisites:* BY 256 and CH 235 and CH 236

BY 420 - General Endocrinology - 3
Roles of endocrine and neuroendocrine chemical messengers in the control of physiological processes. *Prerequisite:* BY 256 or Permission of Instructor.

BY 426 - Evolutionary Medicine - 3
An evolutionary approach to issues relating to human health and disease. *Prerequisites:* (BY 116 or BY 409) and BY 330

BY 428 - Bio Lab Teach Tech - 3
Student will be assistant in introductory biology laboratory. Preparatory session each week, assist laboratory instructor, and assist in preparation of quizzes and practicals. Completion of fifteen (15) hours in biology and Permission of Instructor.

BY 429 - Evolution and Population Bio - 3
Factors influencing evolution and populations dynamics. *Prerequisites:* BY 210

BY 431 - Recombinant DNA Technology - 3
Manipulation of genes and their regulation; techniques used in recombinant DNA technology. Lecture. *Prerequisites:* BY 210 and BY 311

BY 433 - Advanced Molecular Genetics - 3
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

BY 435 - Natural History of Vertebrates - 4
Lecture and field study of adaptations of vertebrate classes for survival in particular environments. Survey and classification of local vertebrates. Lecture and laboratory. Prerequisite: BY 256 or Permission of Instructor. 4 hours

BY 435L - Natural History of Vertebrates Lab - 0
Natural History of the Vertebrates Lab required with BY 435 lecture.

BY 440 - Immunology - 3
Immune system and functions of host humoral and cellular immune responses. Mechanisms of antigen and antibody reactions and basic immunological methods. *Prerequisites:* BY 271 and BY 330 or permission of instructor.

BY 442 - Experimental Phycology - 4
Algae as model systems; experimental approaches to assessing productivity. Lecture and laboratory. *Prerequisites:* BY 210 and CH 117 and CH 118

BY 442L - Experimental Phycology Lab - 0
Experimental Phycology Lab required with BY 442 lecture.

BY 448 - Psychoneuroimmunology - 3
How neuroendocrine and immune systems communicate with each other. Regulatory processes mediated by interactions between these systems and application to diseases. *Prerequisite:* BY 440 or permission of instructor.

BY 450 - Plant Physiology - 4
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 and CH 235 and CH 236

BY 450L - Plant Physiology Lab - 0
Plant Physiology Lab required with BY 450 lecture.

BY 452 - Field Botany - 4
Plant identification and classification; consideration of phylogenetic systems. Lecture and laboratory. *Prerequisite*: BY 260 or Permission of Instructor.

BY 452L - Field Botany Lab - 0
Field Botany Lab required with BY 452 lecture.

BY 453 - Mycology - 4
Fungi, including morphology, development, physiology, taxonomy, and phylogeny. Lecture and laboratory. *Prerequisites:* (BY 260 or BY 271 and CH 235 and CH 236 or permission of instructor

BY 453L - Mycology Lab - 0
Mycology Lab required with BY 453 lecture

BY 460 - Advanced Invertebrate Zoology - 3
Selected topics. Lecture and student projects. *Prerequisites:* BY 255

BY 465 - Limnology - 4
Chemical and physical principles of lakes and streams; biology of freshwater and estuarine organisms. Lecture and Laboratory. *Prerequisites:* BY 255 or BY 256 or BY 260

BY 465L - Limnology Lab - 0
Limnology Lab required with BY 465 lecture.

BY 470 - Ecology - 3
Ecosystems and population biology. *Prerequisites:* BY 255 or BY 256 or BY 260

BY 471 - Ecology Lab - 1
Laboratory in ecosystems and population biology. *Prerequisite or Co-requisite:* BY 470

BY 475 - Mammalian Development - 3
Mechanisms of mammalian development with emphasis on humans, from gametogenesis through completion of embryogenesis. *Prerequisites:* BY 210 and BY 314

BY 496 - Fundamentals of Clinical Research - 3
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 to 6
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. *Prerequisites:* 18 hours of biology with minimum GPA of 3.5 in biology classes and admission to Honors Research Program.

BY 499 - Biology Seminar - 1
Student presentations and discussions. Subject matter varies by term. See current class schedule for topic. *Prerequisites:* Senior standing and permission of instructor.

Marine Science

The University of Alabama at Birmingham is a member of the Marine Environmental Sciences Consortium (MESC). The following courses are taught at the Dauphin Island Sea Lab, Dauphin Island, Alabama, and most are offered during the summer. For further information and registration procedures, consult the MESC representative, Dr. Ken Marion, Department of Biology, UAB; Telephone: (205) 934-8309; Email kmarion@uab.edu

Course Descriptions
Marine Environmental Science (MESC)

MESC 106 - Intro to Oceanography - 4
General introduction to the physics, chemistry, geology, and biology of the ocean. Only general elective credit for biology major or minor. Lecture, laboratory, and field trips.

MESC 128 - Ocean Science - 4
Marine environment and relation of ocean to man. Lecture, laboratory, and field work. For non-science majors. Only general elective credit for biology major or minor.

MESC 201 - Oceanology of Gulf of Mexico - 2
Descriptive study of the oceanology of the Gulf of Mexico and adjacent waters, including coastal zone, continental shelf, and deep ocean. Only general elective credit for biology major or minor.

MESC 206 - Marine Biology - 4
Invertebrates, vertebrates, and marine plants. Lecture, laboratory, and field work. Only general elective credit for biology major and minor. Prerequisites: BY 124 and permission of instructor.

MESC 204 - Coastal Geomorphology - 2
Shape and land forms along coast; factors determining formation. Only general elective credit for biology major or minor. Lecture and lab.

MESC 207 - Commercial Marine Fisheries AL - 2
Biology, harvest techniques, processing, and economic value of local commercial species. Only general elective credit for biology major or minor.

MESC 208 - Biology and Conservation of Marine Turtles - 2
Overview of the biology and conservation of marine turtles. Lecture and laboratory. *Prerequisites:* BY 124

MESC 209 - Hurricanes of Gulf of Mexico - 2
Survey of hurricane formation and impacts with emphasis on hurricanes in the Gulf of Mexico. General elective credit only for biology majors and minors.

MESC 302 - Coastal Zone Management - 2
Ecological features and set of physical management policies for coastal communities, with description of relevant federal and state programs. Only general elective credit for biology major or minor.

MESC 303 - Coastal Climatology - 2
Physical factors resulting in climatic conditions of coastal regions, with emphasis on northern Gulf of Mexico. Only general elective credit for biology major or minor.

MESC 304 - Marine Geology - 4
Geology of ocean basins, with emphasis on continental shelves, sediments, and sedimentary processes. Only general elective credit for biology major or minor. *Prerequisites:* ES 101 and ES 102

MESC 305 - Dolphins and Whales - 2
Classification, anatomy, and ecology of cetaceans. Lecture and laboratory. *Prerequisites:* BY 124

MESC 402 - Marine Vertebrate Zoology - 4
Marine fishes, reptiles, and mammals (systematics, zoogeography, and ecology). Lecture, laboratory, and field work. *Prerequisite:* 12 semester hours biology.

MESC 407 - Marine Botany - 4
Marine algae and vascular and non-vascular plants (distribution, identification, structure, ecology, and reproduction). Lecture, laboratory, and field work. *Prerequisite*: 12 semester hours biology.

MESC 411 - Marsh Ecology - 4
Habitat analysis, natural history studies, and population dynamics of selected organisms. Lecture, laboratory, and field work. *Prerequisite:* MESC 412 or BY 470.

MESC 412 - Marine Ecology - 4
Bioenergetics, community structure, population dynamics, predation, competition, and speciation in marine ecosystems. Lecture, laboratory and field work. *Prerequisites:* BY 255 or BY 256

MESC 413 - Marine Invertebrate Zoology - 4
Natural history, systematics, and morphology of marine invertebrates. Lecture, laboratory and field work. *Prerequisites:* BY 124

MESC 415 - Coastal Ornithology - 2
Coastal and pelagic birds, with emphasis on ecology, taxonomy, and distribution. Lecture, laboratory, and field work. *Prerequisites:* BY 124

MESC 417 - Marine Technical Methods - 2
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
Physics, chemistry, biology, and geology of oceans. Only general elective credit for biology major or minor. *Prerequisites:* CH 117 and CH 118 and MA 106 and PH 202

MESC 472 - Marine Aquaculture - 2
Science, techniques, and economics of marine aquaculture. Lecture and laboratory. *Prerequisite*: BY 256 or BY 435; BY 255 recommended

MESC 473 - Marine Fish Diseases - 4
Introduction to aquatic animal diseases, specifically for fish and shellfish. *Prerequisites: (*BY 255 or BY 256) and BY 271

MESC 475 - Marine Behavioral Ecology - 4
Behavior of marine organisms as it relates to survival in their environment. Lecture, laboratory and field trips. *Prerequisites:* BY 255 or BY 256

MESC 478 - Adv Anatomy/Evol Marine Fishes - 3
Anatomical studies of marine fishes with emphasis on function and structure; evolutionary and taxonomic relationships. *Prerequisites:* BY 256

MESC 479 - Marine Toxicology - 4
Selected topics of toxicology as related to the coastal environment and marine organisms. *Prerequisites:* BY 330 and (CH 235 or CH 237)

MESC 491 - Research on Special Topics - 1 to 6
Enrollment by special arrangement in any subject listed. Prerequisite: Permission of MESC representative, Department of Biology.

MESC 492 - Special Topics:Lecture - 2 to 4
Lectures on selected marine-related topics. Course content varies.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Department of Chemistry

Chair: David E. Graves
Faculty: Atigadda, Brande, Brouillette, C., Brouillette, W., Gray, Hamilton, Krannich, Lucius, March, McClure, Muccio, Nikles, Nonidez, Patterson, Velu, Vyazovkin, Wang, Watkins

The Department of Chemistry provides general course offerings for non-majors and several undergraduate degree programs for chemistry majors. All B.S. degrees are designed to comply with American Chemical Society 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, and pharmacy.

The department offers the following B.S. degrees in chemistry as well as a minor in chemistry:

I. Major in chemistry
II. Major in chemistry with a biochemistry track
III. Major in chemistry with a chemical education track
IV. Major in chemistry with a forensic chemistry track
V. 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 crime 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. In addition, information regarding Chemistry Scholarships is available on the same website at http://www.chem.uab.edu.

ACS-certified B.S. degrees in chemistry: The Department of Chemistry offers five B.S. degrees that are also approved by the American Chemical Society as certified B.S. degrees. These ACS-approved degrees are: Chemistry, Chemistry with the Biochemistry Track, Chemistry with the Forensic Chemistry track, Chemistry with the Polymer Chemistry Track, and Chemistry with the Chemical Education Track. The ACS-approved B.S. degree tracks in chemistry lead to ACS-certified B.S. degrees that meet the foundation, in-depth, and laboratory requirements as specified by the ACS for preeminent B.S. degrees in chemistry. These tracks are designed for students who intend to pursue advanced degrees in the chemical sciences, medicine, dentistry, optometry, pharmacy, or other health-related fields; work as professional chemists or forensic chemists in industrial or government laboratories, or as chemistry educators.

An exciting feature of the Department of Chemistry's B.S. degree is the recruitment and involvement of undergraduate majors 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 contact 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 is 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 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 courses (with laboratories) in chemistry at UAB from the following (CH 115, 117, 235, 237, 325, 326, 345, 355) in order to qualify for the minor. 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.

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: CH 115, CH 116, CH 117, CH 118, CH 235, CH 236, CH 237, and CH 238;
- 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

Students in the Chemistry Honors Program will be required to have the following:

- approval of the Chemistry Honors Director;
- completion of 6 semester hours of undergraduate research CH 497 ;
- enrollment in Honors Thesis, CH 499, requiring a senior thesis is written in ACS format for a scientific paper; and
- an oral presentation 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.

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.chem.uab.edu).

CORE CURRICULUM FOR CHEMISTRY

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses (must earn a C or better): **EH 101** **EH 102**	6
Area II: Literature	Select one of the following courses: **EH 216** **EH 218** **EH 222** **EH 224** **EH 217** **EH 221** **EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101** **ARH 204** **MU 120** **THR 105** **ARH 203** **ARH 206** **THR 100** **THR 200**	3

Area II: Fine Arts and Humanities	Select two of the following courses: **AAS 200 CHI 102 EH 222 GN 101 JPA 102 PHL 203** **ARA 101 CHI 201 EH 223 GN 102 JPA 201 SPA 101/SPA 111** **ARA 102 CHI 202 EH 224 GN 201 JPA 202 SPA 102** **ARH 101 CM 101 FLL 120 GN 202 MU 120 SPA 201** **ARH 203 CM 105 FLL 220 GN 204 PHL 100 SPA 202** **ARH 204 EH 216 FR 101 ITL 101 PHL 115 THR 100** **ARH 206 EH 217 FR 102 ITL 102 PHL 116 THR 105** **AS 200 EH 218 FR 201 ITL 201 PHL 120 THR 200** **CHI 101 EH 221 FR 202 JPA 101 PHL 125**	6-8
Area III: Mathematics	Take the following course: **MA 125**	4
Area III: Natural Sciences	Take all of the following courses: **CH 115 CH 117** **CH 116 CH 118**	8
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 120 HY 121**	3
Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 EC 211 HY 120 PSC 121 PY 212** **ANTH 106 GEO 121 HY 121 PSC 122 SOC 100** **ANTH 120 HY 101 ITS 101 PSC 212 SOC 245** **EC 210 HY 102 ITS 205 PY 101 WS 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 121 PY 212** **ANTH 106 GEO 121 PSC 122 SOC 100** **ANTH 120 ITS 101 PSC 212 SOC 245** **EC 210 ITS 205 PY 101 WS 100**	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 120 + HY 121** **EH 223 + EH 224**	-
	Total Core Curriculum Requirements:	**42-44**

MAJOR REQUIREMENTS FOR CHEMISTRY

Requirement	Fulfilled By:	Hrs.
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 must be taken at UAB. The current UAB course repeat policy will be used in calculating the grade point average. No D grades in chemistry courses are allowed for transfer credit.	-
Computer and Mathematics Requirements	Take the following courses: **CS 101 MA 126** *Note: Completion of **CS 101** automatically satisfies Track C of the School-Wide Requirements.*	7
Physics	Take both of the following courses with laboratories: **PH 201 PH 202** Or take both of the following courses with laboratories: **PH 221 PH 222**	8
Organic Chemistry	Take all of the following courses: **CH 235 CH 236 CH 237 CH 238**	8

Analytical / Inorganic / Physical Chemistry	Take all of the following courses with laboratories: **CH 325 CH 326 CH 345 CH 355**	16
Biochemistry	Take the following course: **CH 460**	3
Chemistry Electives	Select two of the following courses: **CH 440 CH 461 CH 463 CH 465 CH 480** **CH 450 CH 462 CH 464 CH 471 CH 481** Or **6 SH of CH 497** Note: CH 450, CH 480, and CH 481 have required laboratories	6-8
	Total Major Requirements:	**48-50**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives and a school-wide Track A or Track B Course see page 312, to reach the 120 semester hour requirement.

MAJOR REQUIREMENTS FOR CHEMISTRY WITH BIOCHEMISTRY TRACK

Requirement	Fulfilled By:	Hrs.
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 in the major must be taken at UAB. The current UAB course repeat policy will be used in calculating the grade point average. No D grades in chemistry courses are allowed for transfer credit.	-
Computer, Mathematics Requirements	Take the following courses: **CS 101 MA 126** *Note: Completion of **CS 101** automatically satisfies Track C of the School-Wide Requirements.*	7
Biology	Take the following courses: **BY 123** **BY 124** **BY 210** or **BY 271**or **BY 330** Note: BY 123, 124, and 271 have required laboratory components.	11-12
Physics	Take both of the following courses (with laboratories): **PH 201 PH 202** Or take both of the following courses (with laboratories): **PH 221 PH 222**	8
Organic Chemistry	Take all of the following courses: **CH 235 CH 237** **CH 236 CH 238**	8
Analytical / Inorganic / Physical Chemistry	Take all of the following courses with laboratories: **CH 325 CH 326 CH 345 CH 355**	16
Biochemistry	Take all of the following courses: **CH 460 CH 461**	6
Biochemistry Elective	Select one of the following courses: **CH 462 CH 463 CH 464**	3
	Total Major Requirements:	**59-60**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives and a school-wide Track A or Track B course to reach the 120 semester hour requirement.

MAJOR REQUIREMENTS FOR CHEMISTRY WITH FORENSIC CHEMISTRY TRACK

Requirement	Fulfilled By:	Hrs.
GPA and Residency Requirement	A student may apply for admission to the forensic chemistry track upon successful completion of CH 237 and 238. A minimum of nine semester hours of required 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 the forensic chemistry track. The current UAB course repeat policy will be used in calculating the grade point average. No D grades in chemistry courses are allowed for transfer credit.	-
Computer, Mathematics Requirements	Take the following courses: **CS 101 MA 126** *Note: Completion of **CS 101** automatically satisfies Track C of the School-Wide Requirements.*	7
Communication Studies	Take the following course: **CM 101** *Note: Completion of CM 101 automatically satisfies three semester hours of Area II (Fine Arts + Humanities)*	3
Biology	Take the following courses: **BY 123 BY 124 BY210 BY 311 BY 429** Note: BY 123 and 124 have required laboratory components.	17
Physics	Take both of the following courses with laboratories: **PH 201 + PH 202** Or take both of the following courses with laboratories: **PH 221 + PH 222**	8
Organic Chemistry	Take all of the following courses: **CH 235 CH 237** **CH 236 CH 238**	8
Analytical / Inorganic / Physical Chemistry	Take all of the following courses with laboratories: **CH 345 CH 355 CH 450 CH 325 CH 326**	20
Biochemistry	Take all of the following courses: **CH 460 CH 463**	6
Justice Science	**JS 110 JS 120 JS 250 JS 351 or JS 352** **JS 577 or JS 677**	15
Chemistry Research and Internship	**CH 297**	1
	Total Major Requirements:	**85**

MAJOR REQUIREMENTS FOR CHEMISTRY WITH CHEMICAL EDUCATION TRACK

Requirement	Fulfilled By:	Hrs.
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 must be taken at UAB. The current UAB course repeat policy will be used in calculating the grade point average. No D grades in chemistry courses are allowed for transfer credit.	-
Computer and Mathematics Requirements	Take the following courses: **CS 101 MA 126** *Note: Completion of **CS 101** automatically satisfies Track C of the School-Wide Requirements.*	7
Physics	Take both of the following courses with laboratories: **PH 201 + PH 202** Or take both of the following courses with laboratories: **PH 221 + PH 222**	8
Organic Chemistry	Take all of the following courses: **CH 235 CH 236 CH 237 CH 238**	8
Analytical / Inorganic / Physical Chemistry	Take the following courses with laboratories: **CH 345 CH 355 CH 325 or CH 326**	12

Biochemistry	Take the following course: **CH 460**	3
Chemistry Electives	Select two of the following courses: **CH 440 CH 461 CH 463 CH 465 CH 480** **CH 450 CH 462 CH 464 CH 471 CH 481** **or 6 hours of CH 497** Note: CH 450, CH 480, and CH 481 have required laboratories	6-8
Chemistry Teaching Methods	**CH 498**	3
	Total Major Requirements:	**47-49**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives and school-wide Track A or Track B courses, see page 312, to reach the 120 semester hour requirement.

MAJOR REQUIREMENTS FOR CHEMISTRY WITH POLYMER CHEMISTRY TRACK

Requirement	Fulfilled By:	Hrs.
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 must be taken at UAB. The current UAB course repeat policy will be used in calculating the grade point average. No D grades in chemistry courses are allowed for transfer credit.	-
Computer and Mathematics Requirements	Take the following courses: **CS 101 MA 126** *Note: Completion of **CS 101** automatically satisfies Track C of the School-Wide Requirements.*	7
Physics	Take both of the following courses (with laboratories): **PH 201 + PH 202** Or take both of the following courses (with laboratories): **PH 221 + PH 222**	8
Organic Chemistry	Take all of the following courses: **CH 235 CH 236 CH 237 CH 238**	8
Analytical / Inorganic / Physical Chemistry	Take all of the following courses with laboratories: **CH 325 CH 326 CH 345 CH 355**	16
Biochemistry	Take one of the following courses: **CH 460**	3
Polymer	Take all of the following courses with laboratories: **CH 480 CH 481**	8
Material Science and Engineering	Take all of the following courses with laboratories: **MSE 280 MSE 413 MSE 430**	9
	Total Major Requirements:	**59**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives and school-wide Track A or Track B courses, (see page 312), to reach the 120 semester hour requirement.

MINOR REQUIREMENTS FOR CHEMISTRY

Requirement	Fulfilled By:	Hrs.
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 repeat policy will be used in calculating the grade point average. Transfer Students must complete at least two courses (with laboratories) in chemistry at UAB from the following (**CH 115, 117, 235, 237, 325, 326, 345, 355)** in order to qualify for the minor. No grades of D in chemistry courses are allowed for transfer credit	-
Required Computer course	Take the following course: **CS 101**	3
Required Chemistry courses	**CH 115 CH 116 CH 117 CH 118 CH 235** **CH 236 CH 237 CH 238** Note: CH 115, 116, 117, and 118 may also satisfy the Core Curriculum Area III: Natural Sciences requirement; check the Core Curriculum for your particular major.	16
	Total Core Curriculum Requirements:	**19**

Course Descriptions
Chemistry (CH)

CH 100 – Chemical Problem Solving - 3
Development of quantitative skills and introduction to basic chemical concepts.

CH 105 - Introductory Chemistry I - 3
Fundamental facts, principles, theory, and applications of chemistry. Qualitative in nature; for non-science majors and nursing students with no previous background in chemistry. (Core Area III). Not applicable to a major or minor in chemistry. *Prerequisites or Co-requisite:* MA 102 or MA 105 or MA 110

CH 106 - Introductory Chemistry I Laboratory - 1
Emphasizes development of lab skills and demonstration of chemical principles covered in CH 105. (Core Area III) Not applicable to a major or minor in chemistry *Prerequisites or concurrent enrollment:* CH 105

CH 107 - Introductory Chemistry II - 3
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. (Core Area III). Not applicable to a major or minor in chemistry. *Prerequisites:* CH 105 or CH 115

CH 108 - Introductory Chemistry II Laboratory - 1
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. *Prerequisites:* CH 107 or concurrent enrollment.

CH 114 - General Chemistry I Laboratory (Honors) - 1
Emphasizes development of laboratory skills and quantitative analyses related to CH 115. (Proposed Core Area III) *Prerequisite:* CH 115 or concurrent enrollment and permission of instructor.

CH 115 - General Chemistry I - 3
Stoichiometry, quantum theory, atomic structure, chemical bonding, acids- bases, colligative properties and periodicity. Laboratory emphasizes quantitative analysis. (Core Area III) *Prerequisites*: CH 100 or high school chemistry with a grade of C or better. Concurrent enrollment in CH 115R is required. Concurrent enrollment or completion of MA 106 or MA 107 or MA 125 with a C or better is required. (MA 123 will also suffice, but does not fulfill math requirements for the chemistry major).

CH 115R - General Chemistry I Recitation – 0
General chemistry I recitation is used build problem-solving skills in a study-group environment. Included in these sections are homework, quizzes, and lecture related problems and exams.

CH 116 - General Chemistry I Laboratory - 1
Emphasizes development of laboratory skills and quantitative analyses related to CH 115. (Core Area III)
Prerequisites: CH 115 or concurrent enrollment

CH 117 - General Chemistry II - 3
Solutions, chemical kinetics, chemical thermodynamics, chemical equilibrium and special topics (organic, biochemistry, descriptive chemistry) (Core Area III). *Prerequisites:* CH 115 with a grade of C or better. Concurrent enrollment in CH 117R required. MA 106 or MA 107 or MA 125. (MA 123 will also suffice, but does not fulfill math requirements for the chemistry major).

CH 117R - General Chemistry II Recitation - 0
General chemistry II recitation is used to build problem-solving skills in a study-group environment. Included in these sections are homework, quizzes, and lecture related problems and exams.

CH 118 - General Chemistry II Laboratory - 1
Emphasizes development of laboratory skills and quantitative analyses related to CH 117. (Core Area III) *Prerequisites:* CH 117 or concurrent enrollment.

CH 119 - General Chemistry II Laboratory Honors - 1
Emphasizes development of laboratory skills and quantitative analyses related to CH 117. (Proposed Core Area III) *Prerequisites:* CH 117 or concurrent enrollment and permission of instructor.

CH 234 - Organic Chemistry I Laboratory Honors - 1
Techniques of organic chemistry. Synthesis, purification, and characterization of organic compounds *Prerequisites:* CH 235 or concurrent enrollment and permission of instructor.

CH 235 - Organic Chemistry I - 3
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. *Prerequisites:* CH 117 with a grade of C or better and concurrent enrollment in CH 235R (Organic I Recitation). Recitation registration is required.

CH 235R - Organic Chemistry I Recitation – 0
Organic chemistry I recitation is used to build problem solving skills in study-group environments. Included in these sections are homework, quizzes, lecture related problems and exams.

CH 236 - Organic Chemistry I Laboratory - 1
Techniques of organic chemistry. Synthesis, purification, and characterization of organic compounds. *Prerequisites:* CH 235 or concurrent enrollment.

CH 237 - Organic Chemistry II—3
Reactions of aromatic compounds and carbonyl containing functional groups: aldehydes, ketones, acids, esters, and amides. Molecules of biological interest, such as proteins and carbohydrates. *Prerequisites:* CH 235 with a grade of C or better and concurrent enrollment in CH 237R (Organic II Recitations). Recitation registration is required.

CH 237R - Organic Chemistry II Recitation - 0
Organic Chemistry II recitation is used to build problem solving skills in study-group environments. Included in these sections are homework, quizzes, lecture related problems, and exams.

CH 238 - Organic Chemistry II Laboratory - 1
Synthesis, purification, and characterization of organic compounds using instrumental analysis and identification of unknowns. *Prerequisites:* CH 237 or concurrent enrollment

CH 239 - Organic Chemistry II Laboratory Honors - 1
Synthesis, purification and characterization of organic compounds using instrumental analysis and identification of unknowns. Pre*requisites:* CH 237 or concurrent enrollment and permission of the instructor.

CH 291 - Cooperative Education in Chemistry - 2 to 3
A course on the principles of chemistry with emphasis on chemical education and teaching techniques. Appropriate for students seeking certification as a chemistry or science teacher. *Prerequisite:* Sophomore standing and minimum GPA of 2.5 or above, requires permission of and evaluation by appropriate faculty advisor.

CH 297 - Directed Studies - 1 to 3
Independent study in selected areas of chemistry under supervision of faculty sponsor. *Prerequisite:* Completion of 14 hours in Chemistry, including CH 235, GPA of 2.5 in chemistry courses and permission of instructor and chemistry academic advisor.

CH 307 - Core Principles of Modern Science - 1
Course is designed to prepare pre-medical, pre-dental, pre-optometry, and pre-pharmacy students for MCAT, DAT, OAT, and PCAT examinations.

CH 320 - Chemistry in Culture & Ethics - 3
Designed to explore the impacts of chemical innovations on society, and will challenge students to consider ethical use of chemical innovations and broader impacts of Chemistry in society. *Prerequisites:* CH 237 with a minimum grade of D

CH 325 - Thermodynamics and Chemical Kinetics - 4
Thermodynamics, chemical equilibria, and chemical kinetics. Lecture and laboratory. *Prerequisites:* CH 117 and MA 126 and (PH 202 or PH 222) and concurrent enrollment in CH 326L.

CH 325L - Thermodynamics and Chemical Kinetics Laboratory - 0
Thermodynamics and chemical kinetics laboratory required with CH 325 lecture.

CH 326 - Structure/Bonding and Molecular Spectroscopy - 4
Quantum mechanics, chemical bonding, and molecular spectroscopy. Laboratory correlated with lecture material. *Prerequisites:* CH 117 and MA 126 and (PH 202 or PH 222) and concurrent enrollment in CH 326L.

CH 326L - Structure/Bonding and Molecular Spectroscopy Laboratory - 0
Structure/bonding and molecular spectroscopy laboratory required with CH 326 lecture.

CH 345 - Principles and Applications of Chemical Periodicity - 4
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. *Prerequisites:* CH 237 and CH 238 or CH 239 with a grade of C or better and concurrent enrollment in CH 345L.

CH 345L - Principles and Applications of Chemical Periodicity Laboratory - 0
Principles and Applications of Chemical Periodicity Lab required with CH 345 lecture.

CH 355 - Analysis Techniques - 4
Principles of analytical measurements, gravimetric analysis, spectrophotometric analysis, and chromatography, with emphasis on equilibrium and applications. Lecture and laboratory. *Prerequisites:* CH 117 with a grade of C or better and concurrent enrollment in CH 355L.

CH 355L - Analysis Techniques Laboratory - 0
Analysis Techniques Lab required with CH 355 lecture, emphasizing quantitative analysis.

CH 391 - Cooperative Education in Chemistry - 2 to 3
Analysis of the concepts and models of chemistry with emphasis on computational skills for chemistry and science teachers. Appropriate for students seeking certification as chemistry or science teachers. *Prerequisite*: Junior or senior standing and minimum GPA of 2.5 or above. Requires permission of and evaluation by appropriate faculty advisor.

CH 416 - Chemical Demonstrations I - 3
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. *Prerequisite:* Permission of Instructor.

CH 417 - Chemical Demonstrations II - 3
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. *Prerequisite:* Permission of Instructor.

CH 429 - Special Topics in Physical Chemistry - 1 to 3
Selected areas of physical chemistry under supervision of faculty sponsor. Requires permission of instructor.

CH 439 - Special Topics in Organic Chemistry - 1 to 3
Selected areas of organic chemistry under supervision of faculty sponsor. Requires permission of instructor.

CH 440 - Transition Metal Chemistry - 3
Relationship between bonding, structure, and properties of compounds including reactions, mechanisms, and catalysis of organometallic and bioinorganic chemistry. *Prerequisites:* CH 345 with a grade of C or better.

CH 449 - Spec Topics in Inorganic Chemistry - 1 to 3
Selected areas of inorganic chemistry under supervision of faculty sponsor. Requires permission of instructor.

CH 450 - Instrumental Analysis - 4
Focus on modern analytical chemistry instrumentation including chemical separations, spectroscopies (atomic absorption, infrared, UV-visible, fluorescence), nuclear magnetic resonance spectroscopy, mass spectroscopy, and thermal analysis. Laboratory correlated with lecture material. *Prerequisite:* CH 355 with a grade of C or better and concurrent enrollment in CH 450L.

CH 450L - Instrumental Analysis Laboratory - 0
Instrumental Analysis Lab required with CH 450 lecture.

CH 459 - Special Topics in Analytical Chemistry - 1 to 3
Selected areas of analytical chemistry under supervision of faculty sponsor. Requires permission of instructor.

CH 460 - Fundamentals of Biochemistry - 3
Overview of biochemical principles; chemistry of aqueous solutions, biochemical building blocks including amino acids, carbohydrates, lipids, and nucleotides; structure and function of proteins, membranes, and nucleic acids; enzyme kinetics. Catabolic and anabolic metabolism of biomolecules, regulation of metabolic processes. *Prerequisite:* CH 237 with a grade of C or better.

CH 461 - Advanced Biochemistry I - 3
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. *Prerequisite:* CH 460 with a C or better

CH 462 - Advanced Biochemistry II - 3
Continuation of Advanced Biochemistry I focusing on eukaryotic replication, transcription, translation, regulation of gene expression, genomics, proteomics, biological signaling. *Prerequisites:* CH 461 with a C or better.

CH 463 - Biochemistry Laboratory - 3
Introduction to modern analytical techniques used for the isolation and characterization of biological macromolecules. *Prerequisites:* CH 355 and CH 460 with a grade of C or better

CH 464 - Physical Biochemistry Laboratory - 3
Physical/analytical approaches toward determination of macromolecular structures, ligand binding, and enzymology. *Prerequisites:* CH 325 and CH 355 and CH 460 with a grade of C or better or permission of instructor.

CH 465 - Structural Biochemistry - 3
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. *Prerequisites:* CH 325 and CH 461. Lecture and computer Laboratory

CH 469 - Special Topics in Biochemistry - 1 to 3
Selected areas of biochemistry, biophysical chemistry, or structural biochemistry under supervision of faculty sponsor. Requires permission of instructor.

CH 471 - Medicinal Chemical and Drug Discovery - 3
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 and CH 460.

CH 472 - Chemistry of Natural Products - 3
The principal focus of this course will be the introduction of synthesis and medicinal chemistry of natural products. Drugs 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.

CH 480 - Introduction to Polymer Chemistry I - 4
Structure and properties of crystalline and amorphous polymers; polymer processing; correlation of polymer structure with processability and performance. *Prerequisites:* CH 237, CH 235, or MSE 254, and concurrent enrollment in CH 480L.

CH 480L - Introduction to Polymer Chemistry I Laboratory - 0
Introduction to Polymer Chemistry I Laboratory required with CH 480 lecture.

CH 481 - Introduction to Polymer Chemistry II - 4
Synthesis and characterization of polymers: polymerization reaction kinetics and mechanisms; polymer solution properties *Prerequisites:* CH 480 and concurrent enrollment in CH 481L

CH 481L - Introduction to Polymer Chemistry II Laboratory - 0
Introduction to Polymer Chemistry II Laboratory required with CH 481 lecture.

CH 491 - Seminar - 1
Seminar given by students on current chemical literature topics. *Prerequisites:* CH 237 and permission of instructor.

CH 497 - Senior Research - 3
Research project under supervision of chemistry faculty sponsor. Two semesters are required for minimum accumulation of 6 semester hours. A comprehensive written report in ACS format is required. *Prerequisites*: CH 237 and CH 238; GPA 2.5 or greater in chemistry courses; permission of instructor, and chemistry academic advisor.

CH 498 - Chemistry Teaching Methods - 3
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. *Prerequisite*: CH 237 with a grade of C or better and permission of instructor.

CH 499 - Honors Thesis - 3
Honors Thesis. Research project conducted under supervision of chemistry faculty sponsor. Prerequisite: 6 hours of CH 497, admission to the Chemistry Honors Program. Approved research proposal on file with chemistry honors director. Cumulates with a written honors thesis, and oral presentation and defense. *Prerequisites:* CH 497; Chemistry GPA 3.25 or greater; overall GPA 3.0 or greater

Department of Computer and Information Sciences

Chair: Anthony Skjellum
Associate Chair: Barrett R. Bryant
Faculty: Bangalore, Gray, Hill, Hyatt, Johnstone, Sloan, Sprague, Zhang

The Department of Computer and Information Sciences (CIS) has an ABET (Accreditation Board for Engineering and Technology) accredited undergraduate program that offers two B.S. majors and a minor in computer science. The computer science 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. The second computer science major offers an opportunity for specialization in computer networking. Minors are available for students who are not computer and information sciences 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 timeframe. For more information, see the CIS department Web site at http://www.cis.uab.edu.

Majors in Computer and Information Sciences (CS)

The major in computer science requires 43 semester hours of CS courses at the 200 level or above with a grade point average of at least 2.0 and a grade of C or better in each of the required computer science courses. CS courses taken at another institution for which a grade of D was received cannot be counted toward the major or the minor. At least 12 semester hours of CS courses at the 300 level or above must be taken at UAB.

Any CS course at the 300 level or above can be taken to satisfy the 12 semester hour CS elective credit. A maximum of 3 semester hours credit may be obtained in 399 and 496. Although not required, computer science majors have the option to structure these 12 semester hours of program electives as a specialization in Computer Networking. Course substitutions may be made within this specialization with advisor approval.

Students who fail to meet the minimum grade requirements in CS courses will be placed on probation within the major.

MAJOR REQUIREMENTS FOR COMPUTER SCIENCE

Requirement	Fulfilled By:	Hrs.
Mathematics Requirements	Take the following course: **MA 126** And two of the following: **MA 180 MA 227 MA 252 MA 260 MA 372 MA 434** **MA 440 MA 444 MA 445 MA 463 MA 470 MA 474** **MA 485** A grade of C of better must be earned in each course. *Note: Completion of **MA 125** or **MA 126** automatically satisfies the Area III: Mathematics Requirement.*	10
Required Computer Science Courses	Take all of the following courses: **CS 201 CS 302 CS 330 CS 401 CS 433** **CS 250 CS 303 CS 350 CS 420 CS 455** **CS 499** *Note: Completion of **CS 201** automatically satisfies Track C of the School-Wide Requirements.*	36
Computer Science Electives	Complete 12 hours in 300-level or above **Computer Science (CS)** or one CS 300 level or above and two of the following: **EE 337 EE 452 MA 468 + MA 469 NBL 454** **EE 438 MA 360 PHL 372**	12
	Total Major Requirements:	**58**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives to reach the 120 semester hour requirement.

MAJOR REQUIREMENTS FOR COMPUTER SCIENCE WITH COMPUTER NETWORKING SPECIALIZATION

This specialization is shaped by the campus medical community and local industry relationships.

Requirement	Fulfilled By:	Hrs.
Mathematics Requirements	Take the following course: **MA 126** and two of the following: **MA 180 MA 227 MA 252 MA 260 MA 372** **MA 434 MA 440 MA 444 MA 445** **MA 463 MA 470 MA 474 MA 485** A grade of C or better must be earned in **each course** *Note: Completion of **MA 125** or **MA 126** automatically satisfies the Area III: Mathe-*	10

Required Computer Science Courses	Take all of the following courses: **CS 201 CS 302 CS 330 CS 401 CS 433** **CS 250 CS 303 CS 350 CS 420 CS 455** **CS 499** *Note: Completion of **CS 201** automatically satisfies Track C of the School-Wide Requirements.*	36
Computer Networking Electives	Take CS 334 CS 336 CS 431 and CS 435 or one of the following courses: **CS 410 CS 481 CS 482**	12
	Total Major Requirements:	**58**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives to reach the 120 semester hour requirement.

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: CH 115, 116, 117, 118, 235, 236, 237, and 238; BY 123 and 124; PH 201 and 202 or PH 221 and 222. 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.

Minor

A computer science minor requires the completion of 21 semester hours of CS courses at the 200 level or above, including 14 semester hours at the 300 level or above. A minimum of 6 semester hours in CS at the 200 level or above must be taken at UAB. A student must have a C average in all courses presented for the minor.

MINOR REQUIREMENTS FOR COMPUTER SCIENCE

Requirement	Fulfilled By:	Hrs.
Computer Science Requirements	A computer science minor requires 21 hours from 200-level or higher **Computer Science (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.. The 21 hours may be concentrated in the Computer Networking Specialization. The courses making up this minor specialization are CS 201, CS 250, CS 302, CS 303, CS 334, and CS 410.	21
	Total Minor Requirements:	**21**

Freshman	**Sem. Hrs.**	**Sophomore**	**Sem. Hrs.**
CS 101 Fluency with Information Technology	3	HY 101-102	6
CS 201 Introduction to Object Oriented Programming	4	CS 250 Discrete Structures	3
EH 101, 102	6	CS 302 Object Oriented Design	4
MA 125, 126	8	CS 303 Algorithms and Data Structures	4
Laboratory Science courses	8	EH 216	3
Total	**29**	Laboratory Science elective	4
		Mathematics or elective courses	6
		Total	**30**

Junior	Sem. Hrs.
CS 330 Computer Organization and Assembly Language Programming	3
CS 350 Automata and Formal Language Theory	3
CS 401 Programming Languages	3
CS 433 Operating Systems	3
Core courses including CM101	18
Total	**30**

Senior	Sem. Hrs.
CS 420 Software Engineering	3
CS 455 Probability and Statistics in Computer Science	3
CS Electives	12
CS 499 Senior Capstone	3
General elective courses	10
Total	**31**

Honors Program: Computer and Information Sciences (CS)

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 CS 398 (Undergraduate Honors Research) 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 CS 398 (Undergraduate Honors Research) 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. Barrett Bryant, Room 115A, Campbell Hall, Birmingham, AL 35294-1170; Telephone (205) 934-2213; E-mail bryant@cis.uab.edu. Web site: http://www.cis.uab.edu/undergrad.

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.

Course Descriptions
Computer and Information Sciences (CS)

A schedule of courses that will be offered each term is available in the department office.

CS 101 - Fluency With Information Techn - 3
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 W Information Tech Lab - 0
Project oriented hands-on approach lab to accompany CS 101. Mandatory first day attendance.

CS 105 - Intro to Game Prog Using Alice - 3
Introduction to object-oriented programming in a 3D graphical programming environment. First-time exposure to common programming language constructs. Project planning and storyboarding. Hands-on approach with several projects focused on the design of computer games and animation.
This course has a laboratory component.

CS 105L - Intro to Game Prog U Alice Lab - 0
Project oriented hands-on approach.

CS 106 - Intro to Comp Pro Using Python - 3
Foundations of computer science and programming. Using common programming language constructs to manipulate text, images, audio and video, and create graphical user interfaces. Hands-on approach with several projects focused on the design of programs for manipulating various kinds of multimedia. This course has a laboratory component.

CS 106L - Intr to Com Pro Usi Python Lab - 0
Project oriented hands-on approach lab to accompany CS 106. Mandatory first day attendance.

CS 199L - Special Topics Lab - 0
Project oriented hands-on approach lab. Mandatory first day of attendance.

CS 201 - Intro Obj Orient Programming - 4
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. *Prerequisites:* CS 101 and MA 102

CS 201L - Intro to Obj-Orient Prog Lab - 0
Project oriented hands-on approach.

CS 250 - Discrete Structures - 3
Discrete structures for computer science, including sets, functions, elementary prepositional and predicate logic, Boolean algebra, elementary graph theory combinatorics and proof techniques including induction and contradiction. *Prerequisites:* CS 201 and MA 105

CS 299 - Spec Topics - 1 to 3
Selected topics in Computer Science.

CS 302 - Object-Oriented Design - 4
CS 302 is a continuation of CS 201 and emphasizes concepts of object oriented software design. Topics include inheritance, recursion algorithm analysis, sorting algorithms, graphs, hash tables, and linked list data structures such as stacks, queues, and binary trees. This course has a laboratory component. *Prerequisites:* CS 201

CS 302L - Object-Oriented Design Lab - 0
Project oriented hands-on approach.

CS 303 - Algorithms and Data Structures - 4
Efficient design of data structures, recursive algorithms, algorithms for sorting and searching, complexity analysis of algorithms, applications of algorithms and data structures in problems, state spaces, and search strategies in artificial intelligence. This course has a laboratory component. *Prerequisites:* CS 250 and CS 302

CS 303L - Algorithms/Data Structure Lab - 0
Project oriented hands-on approach.

CS 304 - Object-Oriented Program C++ - 1
Syntax, semantics, and concepts of C++ programming, templates, parametrized classes, generic programming, standard template library. *Prerequisites:* CS 302

CS 306 - Perl Programming - 3
Perl data structures and syntax. Flow control, functions, scoping, regular expressions, pattern matching, files and data, references, libraries and modules, program composition. Object-Oriented Programming. Multidimensional data. Networking. Module development. CGI and other third-party modules. Best Practices.

CS 330 - Comp Organiz/Assembly-Lang - 3
Register-level architecture of modern digital computer systems, addressing techniques, program segmentation and linkage,digital logic, machine-level representation of data, assembly-level machine organization and instruction execution, and alternative architectures. *Prerequisites:* CS 250 and CS 302

CS 333 - UNIX Operating Sys Fundamental - 1
Unix architecture, concepts, and principles; shell concepts and principles filters, I/O redirection, environment, process management, runtime architecture. *Prerequisites:* CS 302

CS 334 - Internetworking with TCP/IP - 3
Underlying network technology. 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 and CS 302

CS 334L - Internetwork w TCP/IP Lab - 0
Project oriented hands-on approach. Mandatory first day of class.

CS 336L - Computer Network Security Lab - 0
Project oriented hands-on approach.

CS 350 - Automata/Formal Lang theory - 3
Finite-state automata and regular expressions, context-free grammars and pushdown automata, Turing machines, computability and decidability, and complexity classes. *Prerequisites:* CS 250 and CS 302 and MA 125

CS 391 - Special Topics - 1 to 3
Selected Topics in Computer Science.

CS 392 - Special Topics - 1 to 3
Selected Topics in Computer Science

CS 393 - Special Topics - 1 to 3
Selected Topics in Computer Science.

CS 394 - Special Topics - 1 to 3
Selected Topics in Computer Science.

CS 395 - Special Topics - 1 to 3
Selected Topics in Computer Science.

CS 398 - Undergraduate Honors Research - 1 to 3
Research project under supervision of faculty sponsor. *Prerequisite:* 18 semester hours in computer science with grade point average of 3.5 in computer science and permission of instructor.

CS 399 - Directed Readings - 1 to 3
Selected readings, research and project development under the direction of a faculty member.

CS 401 - Programming Languages - 3
Formal syntax and semantics; compilers and interpreters; virtual machines; representation of data types; sequence and data control; type checking; run-time storage management; functional, logic, and object-oriented programming paradigms; concurrency and multi-threading. *Prerequisites:* CS 303 and CS 350

CS 402 - Compiler Design - 3
Lexical and syntactical scan, semantics, code generation and optimization, dataflow analysis, parallelizing compilers, automatic compiler generation. *Prerequisites:* CS 405

CS 410 - Database Management Systems - 3
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

CS 415 - Multimedia Databases - 3
This course introduces the principles of multimedia databases including multimedia information processing, modeling, and retrieval. The media to be considered include text, image, audio and video. At the conclusion of this course, the students should understand what multimedia data retrieval is, the principles, which allow the location of relevant information from amongst a large corpus of multimedia data, and the applications of multimedia information retrieval. The students should also have the expertise and competence to design and implement retrieval software for multimedia data. *Prerequisites:* CS 410

CS 420 - Software Engineering - 3
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. *Prerequisites:* CS 303

CS 425 - Metrics and Performance - 3
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

CS 431 - Distributed Computing - 3
Introduction to distributed systems, distributed hardware and software concepts, communication, processes, naming, synchronization, consistency and replication, faulty tolerance, security, client/server computing, web technologies, enterprise technologies. *Prerequisites:* CS 330

CS 432 - Parallel Computing - 3
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 304 and CS 330) or MA 360

CS 433 - Operating Systems - 3
Internal design and operation of a modern operating system, including interrupt handling, process scheduling, memory management, virtual memory, demand paging, file space allocation, file and directory management, file/user security and file access methods. *Prerequisites:* CS 303 and CS 330

CS 435 - Network Programming - 3
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 330

CS 436 - Computer Security - 3
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 and CS 330

CS 440 - Bioinformatics I - 3
Introduction to computational methodologies in bioinformatics. *Prerequisites:* CS 303

CS 455 - Probability & Statistics in CS - 3
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

CS 460 - Prin Artificial Intelligence - 3
Problem-solving methods in artificial intelligence and heuristic programming; models of memory and cognition. *Prerequisites:* CS 330 and CS 350

CS 466 - Games and Puzzles Seminar - 1
Interfaces and Engines for games and puzzles such as Chess, Checkers, Othello, Rubik's Cube, Go, Sudoku, etc. *Prerequisites:* CS 303

CS 470 - Computer Graphics - 3
Graphics architectures, geometric transforms, 3-D, object models, shading, intensity, hidden elements, color, advanced topics. *Prerequisites:* CS 303 and MA 125

CS 475 - Visualization - 3
Advanced Computer Graphics techniques aimed at "scientific visualization" applications.

CS 481 - Simul Models and Animations - 3
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

CS 482 - Simulation Methodology & Appli - 3
Foundations for computer modeling and simulation, with accent on discrete systems: random number and process generation; statistical bases with probability and frequency distribution orientation; Monte Carlo experiments and general purpose modeling, e.g., in SLX. *Prerequisites:* CS 303 and MA 125

CS 491 - Special Topics - 1 to 3
Special Topics in Computer Science.

CS 492 - Special Topics - 1 to 3
Special Topics in Computer Science.

CS 493 - Special Topics - 1 to 3
Special Topics in Computer Science.

CS 495 - Special Topics - 1 to 3
Special Topics in Computer Science.

CS 496 - Research Seminar - 1
Participation in research seminar directed by a faculty member.

CS 497 - Competitive Program Techniques - 1
Problem Solving techniques and algorithms, designed to prepare students for ACM programming contest, three-course sequence starting in Spring.

CS 499 - Senior Capstone - 3
A series of lectures spanning the CIS curriculum by faculty and guest lectures on key topics in computer science together with lecture and in depth discussion on computer ethics: further lectures and material on scientific inquiry and the computer science field. Students take the Major Field Test in Computer Science as a requirement for completing this course.

Earth Science and Geology

Faculty: Brande

Course Descriptions
Earth Science (ES)

ES 101 - Physical Geology - 3
Study of the earth, its materials and natural resources, processes of change, natural hazards to mankind. Lecture. *Prerequisites:* ES 102

ES 102 - Physical Geology Lab - 1
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

ES 103 - History of the Earth - 3
Interpretation of Earths history through geologic time. Study of life on Earth through the fossil record. Lecture. *Prerequisites:* ES 104

ES 104 - History of the Earth Lab - 1
Sedimentary materials and environments of formation. Fossil identification. Geologic time and principles of age-dating. One laboratory session per week. *Prerequisites:* ES 103

ES 105 - Physical Geography - 3
Atmosphere, weather, climate and climatic regions, and soils.

ES 106 - Environ Hazards/Earth Science – 3

ES 107 - Dir Readings in Earth Science - 1 to 3

ES 109 - Planet Earth - 3
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
The physical geography of Alabama: geologic setting, landscape, climate and weather, soils and vegetation, natural resources.

ES 120 - Geology for Engineers - 3
The solid earth, the nature of the earths crust, surficial processes.

ES 191 - Co-op Work Program - 2 to 3

Department of Mathematics

Chair: Rudi Weikard
Associate Chair: John C. Mayer
Faculty: Blokh, Chernov, Dale, Dixon, Hainzl, Hutchison, Johnson, Karpechina, Knowles, Kravchuk, Nkashama, Oversteegen, Saito, Shterenberg, Simanyi, Stansell, Stolz, Vaughan, Ward, Weinstein, Zeng, Zhang, Zou
Emeriti: Lewis, O'Neil, Stocks

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 (www.math.uab.edu) summarizes information about the Departmental programs.

For the major there are four distinct B.S. degree tracks in mathematics.:
I. Mathematics (traditional track)
II. Mathematics with Honors
III. Applied Mathematics and Scientific Computation
IV. Mathematical Reasoning

MAJOR REQUIREMENTS FOR MATHEMATICS

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A grade of C or better is required in each course counted toward the major.	-
Required Mathematics Courses	39 semester hours with 24 hours at the 300 level or above **MA 125** **MA 227** **MA 434** **MA 441** **MA 126** **MA 252** **MA 440** One of the following courses: MA 360, MA 361, MA 461, MA 468 *Note: Completion of **MA 125** automatically satisfies the Core Curriculum Area III: Math requirement. Completion of **MA 360 or MA 361** automatically satisfies Track C of the School-Wide Requirements.*	
Mathematics Electives	Two or three electives selected from courses numbered 300 or above, each of which must have a calculus (MA 125 or MA 124) prerequisite	
Advanced Mathematics Sequence	In completing the requirements above, students must complete a two course sequence in Mathematics. Eligible sequences are listed below: **MA 434 + MA 435** **MA 470 + MA 471** **MA 455 + MA 461** **MA 454 + MA 455** **MA 485 + MA 486** **MA 463 + MA 464** **MA 474 + MA 475**	-
	Total Major Requirements:	**39**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	A minor is required for this degree. Track C (Computer science/Technology) of the school wide requirements must be satisfied by mathematics majors (in addition to either Track A or Track B).
General Electives	Students must take general electives to reach the 120 semester hour requirement.

Suggested curriculum for the traditional track

Year	Fall	Spring
Freshmen	MA 125	MA 126
Sophomore	MA 227	MA 252 MA 361
Junior	MA 434 MA sequence	MA elective MA sequence
Senior	MA 440 MA elective	MA 441

MINOR REQUIREMENTS FOR MATHEMATICS

Requirement	Fulfilled By:	Hrs.
GPA & Residency Requirement	A minimum grade of C is required in all courses applied to the minor. A minimum of six semester hours above calculus must be completed at UAB.	-
Required Mathematics Courses	Take all of the following courses: **MA 125** **MA 126** **MA 227** *Note: **MA 125** may also satisfy the Core Curriculum Area III: Math requirement; check the Core Curriculum for your particular major.*	12
Mathematics Electives	Select nine hours from **Mathematics (MA)** courses numbered 200 or above, at least 6 semester hours of which must have a calculus (MA 125 or MA 124) prerequisite. (**MA 260** and **MA 434** cannot both be counted ; MA 261 and MA 361 cannot both be counted).	9
	Total Minor Requirements:	**21**

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 Undergraduate Program Director, Dr. Mayer, at (205) 934-2154.

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, written report, and oral presentation 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 three terms (MA 498, Special Topics in Mathematics, two semester hours per term) or the equivalent; and
- to have filled out and submitted the Mathematics Honors Program application form to the Undergraduate Program Director.

Suggested curriculum for the honors program

Year	Fall	Spring
Freshmen	MA 125	MA 126
Sophomore	MA 227	MA 252 MA 361
Junior	MA 434 MA sequence	MA elective MA sequence
Senior	MA 440 MA elective	MA 441

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

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A grade of C or better is required in each course counted toward the major.	-
Required Mathematics Courses	39 semester hours with 21 hours at the 300 level or above **MA 125** **MA 227** **MA 360** **MA 126** **MA 252** One of the following courses: MA 260 or MA 434 *Note: Completion of **MA 125** automatically satisfies the Core Curriculum Area III: Math requirement. Completion of **MA 360 or MA 361** automatically satisfies Track C of the School-Wide Requirements.*	
Mathematics Electives	Two additional electives selected from courses numbered 300 or above, and from areas 30-99 of the course numbering system for mathematics	
Advanced Mathematics Sequence	Four electives selected from MA 444, MA 455, MA 461, MA 462, MA 463, MA 464, MA 465, MA 467, MA 468, MA 485, and MA 486. In completing these requirements, students must complete one of the following two-course sequences: **MA 455 + MA 461** **MA 485 + MA 486** **MA 455 + MA 467** **MA 485 + MA 462** **MA 463 + MA 464**	-
	Total Major Requirements:	**39**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	A minor is required in the sciences, engineering, or business for this degree. Track C (Computer science/Technology) of the school wide requirements must be satisfied by mathematics majors (in addition to either Track A or Track B).
General Electives	Students must take general electives to reach the 120 semester hour requirement.

Suggested curriculum for the computational track

Year	Fall	Spring
Freshmen	MA 125	MA 126
Sophomore	MA 227 MA 360	MA 252 MA 444
Junior	MA 434 MA sequence	MA 468 MA sequence
Senior	MA 465	MA elective

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

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A grade of C or better is required in each course counted toward the major. Requirements are 33 semester hours in mathematics with 21 at the upper level (courses numbered 300 and above). Nine hours must be taken at the 400 level.	-
Required Mathematics Courses	Take the following courses: **MA 105** **MA 110** **MA 123** **MA 124** **MA 311** **MA 313** **MA 314** **MA 361** **MA 411** **MA 412** Note: Completion of **MA 123 and MA 124** automatically satisfies the Core Curriculum Area III: Math requirement. Completion of **MA 361** automatically satisfies Track C of the School-Wide Requirements.	
Mathematics Electives	One additional elective from the following: MA 472, MA 434, MA 435, MA 473, MA 485, MA 486	
Allowed Substitutions	One of the following substitutions may be made: MA 317 may substitute for MA 105; MA 418, 315, or 485 may substitute for MA 110.	-
	Total Major Requirements:	**33**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	A minor is required for this degree. Track C (Computer science/Technology) of the school wide requirements must be satisfied by mathematics majors (in addition to either Track A or Track B).
General Electives	Students must take general electives to reach the 120 semester hour requirement.

Suggested curriculum for the mathematical reasoning track

Year	Fall	Spring
Freshmen	MA 110	MA 105
Sophomore	MA 313 MA 123	MA 314 MA 124
Junior	MA 311 MA 472	MA 361 MA 411
Senior	MA 412	

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—precalculus
- 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, 126, and 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 .

Course Descriptions
Mathematics (MA)

All prerequisite courses must be passed with a grade of C or better. Students who do not meet the prerequisite requirement(s) in any course may be administratively withdrawn from that course.

MA 098 - Basic Algebra - 3
Introductory algebra including solving equations, working with fractions, and plane geometry. Designed to prepare student for college level math courses. Consists of one scheduled 50 minute lecture per week, plus two hours of individually scheduled computer lab time required per week. Attendance at the first day of class is mandatory. Students not in attendance on the first day of class will be dropped from the course. Non-credit; does not contribute to any degree requirements.

MA 098L - Basic Algebra Lab - 0
Basic Algebra Lab - Arithmetic of integers, rational numbers, real numbers, polynomial algebra, factoring, rational functions, linear and quadratic equations, radicals and roots, elementary geometry, verbal problems.

MA 102 - Intermediate Algebra - 3
Algebraic techniques including functions, graphs, systems of equations, polynomials, fractional and radical expressions, exponents, complex numbers, quadratic equations, and application modeling. Consists of one scheduled 50 minute lecture per week, plus two hours of individually scheduled computer lab time required per week. Attendance at the first day of class is mandatory. Students not in attendance on the first day of class will be dropped from the course. Non-credit; does not contribute to any degree requirements. *Prerequisites:* MA 098

MA 102L - Intermediate Algebra Lab - 0
Intermediate algebraic techniques, factoring and divisibility, complex fractions, negative and fractional exponents, completing squares, linear and quadratic models, equation solving, quadratic formula, verbal problems, Cartesian coordinate system, midpoint and distance formulas, graphs or linear equations.

MA 105 - Pre-Calculus Algebra - 3
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. *Prerequisites:* MA 102

MA 105L - Pre-Calculus Algebra Lab - 0
Functions from algebraic, geometric (graphical), and numerical points of view, including polynomial, rational, logarithmic, and exponential functions; inverse functions; systems of equations and inequalities; complex and real roots of polynomials; applications and modeling, both scientific and business.

MA 106 - Pre-Calculus Trigonometry - 3
Trigonometric functions (circular functions) and their inverses, graphs, and properties; right triangle trigonometry and applications; analytical trigonometry, trigonometric identities and equations; polar coordinates, vectors, complex numbers, and De Moivres theorem; laws of sines and cosines; conic sections. *Prerequisites:* MA 105

MA 106L - Pre-Calculus Trigonometry Lab - 0
Trigonometric functions (circular function) and their inverse, graphs, and properties; right triangle trigonmetry and application; analytical trigonometry, trigonometric identities and equations; polar coordinates, vectors, complex numbers, and De Moivre's theorem; laws of sines and cosines; conic section.

MA 107 - Precal Algebra/Trigonometry - 4
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. Satisfies core curriculum requirement in mathematics. *Prerequisites:* MA 102

MA 109 - Survey of Calculus - 3
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. *Prerequisite:* MA 105 or MA 107

MA 110 - Finite Mathematics - 3
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. *Prerequisites:* MA 096 or MA 097 or MA 098 or MA 102

MA 110L - Finite Mathematics Lab - 0
An overview of topics of finite mathematics and applications of mathematics for the liberal arts student. Topics include counting, permutations, combinations, basic probability, descriptive statistics, binomial and normal distributions, statistical inference and additional selected topics.

MA 120 - Intro to Symbolic Logic - 3
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 123 - Calculus for the Life Sciences I- 3
Discrete time models from the life sciences will introduce the mathematical study of change, the use of limits, dynamical systems, and the infinite processes of Calculus. Discrete models of population growth, genetics, neurons and other life science examples will be among those used. Models continuous in space and time lead to the study of limits, continuity and differentiation of functions, including exponential, logarithmic, and trigonometric functions. Applications of differentiation to discrete dynamical systems: stability, exchange of stability and bifurcation; finding extremes; linear approximation; Newton s method. *Prerequisites:* MA 105

MA 124 - Calculus for the Life Sciences II - 3
Continuous time dynamics from the life sciences will introduce the mathematical study of differential equations; initial value problems, and anti-derivatives; the definite integrals, and first order differential equations with biological applications; one-dimensional phase analysis. Interacting populations will motivate two-dimensional continuous dynamical systems. Time permitting: functions of two variables, partial derivatives the gradient and directional derivatives; conservation laws, transport, and first order partial differential equations. *Prerequisites:* MA 123

MA 125 - Calculus I - 4
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. *Prerequisites:* MA 106 and MA 107

MA 126 - Calculus II - 4
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. *Prerequisites:* MA 124 or MA 125

MA 180 - Intro to Statistics - 3
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.

MA 224 - Intermediate Symbolic Logic - 3
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 and PHL 220

MA 227 - Calculus III - 4
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

MA 252 - Intro Differential Equations - 3
First order equations, separation of variables, exact equations, integrating factors, initial value problem; second order linear differential equations with constant coefficients, Euler equations, undetermined coefficients, variation of parameters; applications and modeling; additional selected topics. *Prerequisites:* MA 126

MA 260 - Intro to Linear Algebra - 3
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

MA 311 - History of Mathematics I - 3
Development of mathematical principles and ideas from an historical viewpoint, and their cultural, educational and social significance. *Prerequisites:* MA 124 or MA 126

MA 312 - History of Mathematics II - 3
Development of mathematical principles and ideas from an historial viewpoint, and their cultural, educational and social significance. *Prerequisites:* MA 311

MA 313 - Patterns, Funct,& Alg Reasoning - 3
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 2 years of high school algebra or MA102 has been completed before taking course.

MA 314– Geometric and Proportional Reasoning - 3
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 proportionality, 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. *Prerequisite:* MA 313

MA 315 - Probablistic and Stat Reason - 3
Descriptive and inferential statistics, probability, estimation, hypothesis testing. Reasoning with probability and statistics is emphasized. *Prerequisites:* MA 313

MA 316 - Numerical Reasoning - 3
Develop understanding of number and improve numerical reasoning skills specifically with regard to place value, number relationship that build fluency with basis facts, and computational proficiency; developing a deep understanding of numerous diverse computational algorithms; mathematical models to represent fractions, decimals and percents, equivalencies and operations with fractions, decimals and percents; number theory including order of operations, counting as a big idea, properties of number, primes and composites, perfect, abundant and significant numbers, and figurate numbers; inductive and deductive reasoning with number. *Prerequisites:* MA 313

MA 317 - Extending Algebraic Reasoning - 3
Extending algebraic and functional reasoning to polynomials, rational, exponential, and logarithmic functions; problem-solving involving transfer among representation (equation, graph, table); proof via symbolic reasoning, contradiction, and algorithm; interpretation of key points on graphs (intercepts, slope, extrema); develop facility and efficiency in manipulating symbolic representations with understanding; appropriate use of technology and approximate versus exact solutions; functions as models. *Prerequisites:* MA 313

MA 360 - Scientific Programming - 3
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

MA 361 - Mathematical Modeling - 3
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. *Prerequisites:* MA 123 or MA 125

MA 411 - Integrating Mathematical Ideas - 3
This course will integrate ideas from algebra, geometry, probability, and statistics. Emphasis will be on using functions as mathematical models, becoming fluent with multiple presentations 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 124 and (MA 314 or MA 315 or MA 316 or MA 317)

MA 412 - Connecting Mathematics to Science and Technology - 3
This course will extend the idea of functions as mathematics models introduced in MA 411 and extend the families of functions that are used as models. Specific models from the earth, life, and physical sciences will be introduced. The role of probability and statistics in model-building will be emphasized. Students will be expected to communicate mathematics verbally and in writing through small group, whole group, and individual interactions. *Prerequisites:* MA 124 and (MA 314 or MA 315 or MA 316 or MA 317)

MA 418 - Statistics for Teachers - 3
Descriptive and inferential statistics, probability distributions, estimation, hypothesis testing. Recommended that 2 years of high school algebra or MA 102 has been completed before taking course.

MA 419 - Special Topics for Teachers - 3
With permission of instructor, may be used as continuation of any MA 413 through MA 418 course. May be repeated for credit when topics vary.

MA 434 - Algebra I: Linear - 3
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 124 or MA 126

MA 435 - Algebra II: Modern - 3
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

MA 440 - Advanced Calculus I - 3
Introduction to real numbers, sequences and series of real numbers; functions and continuity; differentiation. This course is taught as a do-it-yourself course and will meet 4 hours per week. *Prerequisites:* MA 227

MA 441 - Advanced Calculus II - 3
Introduction to real numbers, sequences and series of real numbers, continuity, differentiation, the Mean Value Theorem, the Riemann Integral, the Fundamental Theorem of Calculus, sequences and series of functions, uniform vs. pointwise convergence, some elementary and special functions. *Prerequisites:* MA 440

MA 444 - Vector Analysis - 3
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

MA 445 - Complex Analysis - 3
Analytic functions, complex integration and Cauchys Theorem, Taylor and Laurent series, calculus of residues and applications, conformal mappings. *Prerequisite:* MA 227

MA 453 - Transforms - 3
Theory and applications of Laplace and Fourier transforms. *Prerequisites:* MA 252

MA 454 - Interm Differential Equations - 3
Topics from among Frobenius series solutions, Sturm-Liouville systems, nonlinear equations, and stability theory. *Prerequisites:* MA 252

MA 455 - Partial Diff Equations I - 3
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. *Prerequisites:* MA 252

MA 456 - Partial Diff Equations II - 3
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

MA 461 - Modeling With PDE - 3
Practical examples of partial differential equations; derivation of partial differential equations from physical laws; introduction to Matlab and its PDE Toolbox, and other PDE packages such as Femlab using practical examples; brief discussion of finite difference and finite element solution methods; introduction to continuum mechanics and classical electrodynamics; parallel programming using MPI and the mathematics department Beowulf system; specialized modeling projects in topics such as groundwater modeling, scattering of waves, medical and industrial imaging, fluid mechanics, and acoustic and electromagnetic applications. *Prerequisites: (*MA 360 and MA 455) or (MA 555 and MA 560)

MA 462 - Intro Stochastic Differ Equat - 3
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

MA 463 - Operations Research I - 3
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

MA 464 - Operations Research II - 3
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

MA 465 - PDE: Finite Diff Meth - 3
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 and MA 455

MA 467 - Gas Dynamics - 3
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 and MA 360

MA 468 - Numerical Analysis - 3
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

MA 469 - Numerical Analysis II - 3
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. *Prerequisite*: MA 468

MA 470 - Differential Geometry I - 3
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 227

MA 471 - Differential Geometry II - 3
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

MA 472 - Geometry I - 3
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 124 or MA 125

MA 473 - Geometry II - 3
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 260 or MA 434) and MA 472

MA 474 - Intro to Topology I - 3
Essence and consequences of notion of continuous function developed. Topics include metric spaces, topological spaces, compactness, connected-ness, and separation. *Prerequisite:* MA 227

MA 475 - Intro to Topology II - 3
Essence and consequences of notion of continuous function developed. Topics include metric spaces, topological spaces, compactness, connected-ness, and separation. *Prerequisites:* MA 474

MA 480 - Intro to Statistics - 3
Descriptive and inferential statiscs, probability distributions, estimation, hypothesis testing. Recommended that 2 years of high school algebra or MA 102 has been completed before taking course.

MA 485 - Probability - 3
Sample spaces; combinations, absolute and conditional probability; discrete and continuous random variables; probability distributions and density functions. *Prerequisites:* MA 124 or MA 126

MA 486 - Mathematical Statistics - 3
Confidence intervals, hypothesis testing, analysis of variance and covariance, maximum likelihood estimates, linear regression, tests of fit, robust estimates and tests. *Prerequisites:* MA 485

MA 490 - Mathematics Seminar - 1 to 3
Topics vary: may be repeated for credit.

MA 491 - Mathematics Seminar - 1 to 3
Topics vary; may be repeated for credit. *Prerequisite:* vary with topics.

MA 492 - Special Topics in Mathematics - 1 to 3
Topics vary; may be repeated for credit. *Prerequisite:* vary with topics.

MA 493 - Special Topics in Mathematics - 1 to 3
Topics vary; may be repeated for credit. Prerequisite: vary with topics.

MA 494 - Special Topics in Mathematics - 1 to 3
Topics vary: may be repeated for credit. *Prerequisite:* vary with topics.

MA495 - Special Topics in Mathematics - 1 to 3
Topics vary: may be repeated for credit.

MA 496 - Special Topics in Mathematics - 1 to 3
Topics vary; may be repeated for credit.

MA 497 - Special Topics in Mathematics - 1 to 6
Topics vary; may be repeated for credit.

MA 498 - Research in Mathematics - 1 to 12
Topics vary; may be repeated for credit.

MA 499 - Research in Mathematics - 1 to 12
Topics vary; may be repeated for credit

Department of Physics

Chair: David L. Shealy
Faculty: Camata, Catledge, DeVore, Dixon, Gerakines, Harrison, Hilton, Kapoor, Kawai, Lawson, Martin, Mirov, Mohr, Nordlund, Stanishevsky, Tsoi, Vohra, Wills, Zvanut

Physics is a basic science concerned with the study of the universe and the matter, space-time, energy and interactions that take place and 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 with 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 and a B.S. degree, with a major in physics, is offered via three tracks. Advising for all physics majors is provided by 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 three distinct B.S. degree tracks in physics:

I. Physics
II. Biophysics
III. Physics Education

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, high-tech enterprises, or science writing. A balanced, flexible mix of physics, chemistry, biology and math is required.

The Physics Education Track offers a flexible program to prepare students for careers as teachers certified in Physics and allied sciences. A Bachelor of Science degree in Physics is followed by a post-graduate program in the School of Education. Contact the Department of Physics and the School of Education for details.

A Bachelor of Science degree with Honors in Physics is available for all 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 (www.phy.uab.edu) summarizes information about the Departmental programs.

MAJOR REQUIREMENTS FOR PHYSICS

Requirement	Fulfilled By:	Hrs.
Grade Requirement	Students must earn a grade of "C" or better in all courses applied to this major.	-
Required Chemistry	Take both of the following courses (with laboratories): **CH 115 + CH 116 CH 117 + CH 118**	8
Required Mathematics	Take all of the following courses: **MA 126 MA 227 MA 252**	11
Mathematics Elective	Select one **Mathematics (MA)** course.	3
Required Physics Courses	Take all of the following courses: **PH 221 PH 351 PH 432 PH 446 PH 451 PH 462** **PH 222 PH 352 PH 445 PH 450 PH 461**	37
Physics Elective	Select One Physics Elective at the 400 level	3
	Total Major Requirements:	**62**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives to reach the 120 semester hour requirement.
Minor	A minor is required for this degree

MAJOR REQUIREMENTS FOR PHYSICS WITH BIOPHYSICS TRACK

Requirement	Fulfilled By:	Hrs.
Grade Requirement	Students must earn a grade of "C" or better in all courses applied to this major.	-
Required Biology	Take both of the following courses: **BY 123 BY 124**	8
Required Chemistry	Take all of the following courses (with laboratories): **CH 115 + CH 116 CH 235 + CH 236** **CH 117 + CH 118 CH 237 + CH 238**	16
Required Mathematics	Take all of the following courses: **MA 125 MA 126 MA 227 MA 252**	15
Mathematics Elective	Select one **Mathematics (MA)** course.	3
Required Physics Courses	Take all of the following courses: **PH 221 PH 222 PH 351 PH 352 PH 432**	19
Physics Elective	Select approved **Physics (PH)** courses at the 400 level.	10
	Total Major Requirements:	**71**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives to reach the 120 semester hour requirement.
Minor	A minor is required for this degree

MAJOR REQUIREMENTS FOR PHYSICS EDUCATION TRACK

Requirement	Fulfilled By:	Hrs.
Grade Requirement	Students must earn a grade of "C" or better in all courses applied to this major.	-
Required Chemistry	Take both of the following courses (with laboratories): **CH 115 + CH 116** **CH 117+ CH 118**	8
Required Mathematics	Take all of the following courses: **MA 125** **MA 126**	8
Mathematics Elective	Select one **Mathematics (MA)** course from MA 413-MA 419.	3
Required Physics Courses	Take all of the following courses: **PH 221** **PH 301 or PH 302** **PH 351** **PH 432** **PH 222** **PH 304 or PH 305** **PH 352** **PH 490**	30
Physics Elective	Select approved **Physics (PH)** courses at the 400 level.	2
	Total Major Requirements:	**51**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives to reach the 120 semester hour requirement.
Minor	A minor is required for this degree

MINOR REQUIREMENTS FOR PHYSICS

Requirement	Fulfilled By:	Hrs.
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.	-
Required Physics courses	Take all of the following courses with laboratories: **PH 221** **PH 351** **PH 222** *Note: **PH 221** and **PH 222** may also satisfy the Core Curriculum Area III: Natural Sciences requirement; check the Core Curriculum for your particular major.*	12
Physics Electives	Select six hours from approved **Physics (PH)** courses. See advisor for a list of approved courses. PH 352 and any of PH 42X, PH 47X, PH 48X on the approved lists given to you.	6
	Total Minor Requirements:	**18**

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 351-352;
- have arranged with a faculty sponsor to do a physics research project satisfying
- expectations for six semester hours of Honors Research (PH 495); and
- have submitted the Honors Program Application Form.

Requirements
Students in the Physics Honors Program are required to have the following:

- approval of the Undergraduate Program Director and selection of an Honors
- Committee;
- committee approval of a written research proposal by the end of the first term of
- Honors Research;
- completion of six semester hours of Honors Research, PH 495;
- 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; and
- an oral or poster presentation of the research project to the Honors Committee.

Where appropriate, the Honors Committee may recommend that the physics honors student present the work at an appropriate regional or national scientific meeting.

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. David L Shealy, Chair
E-mail: dls@uab.edu
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Mail address:
UAB-Physics
1530 3rd Ave. S., CH310
Birmingham, AL 35294-1170 USA

Graduate Programs

The Department of Physics offers graduate study leading to the degrees of Master of Science and Doctor of Philosophy in physics. The department also participates in an interdisciplinary Ph.D. degree program in materials science. Further information may be obtained from Dr. Yogesh K. Vohra, Graduate Program Director at (205) 934-6662, ykvohra@uab.edu, or the UAB Graduate School Catalog.

See the UAB Graduate School Catalog for descriptions of graduate courses.

Course Descriptions
Astronomy (AST)

AST 101 - Astronomy of the Universe - 3
Survey of the universe of matter and energy. Interpretation of observations to develop a self-consistent view of the universe, basic physical law and structures, cosmic history and evolution. Lecture and laboratory. Co-requisite: AST 111 laboratory.

AST 102 - Astronomy of Stellar Systems - 3
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. Co-requisite: AST 112 laboratory.

AST 103 - Astronomy of the Solar System - 3
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. Co-requisite: AST 113 laboratory.

AST 105 - Extraterrestrial Life - 3
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. Co-requisite: AST 115 laboratory.

AST 111 - Astronomy of the Universe Lab - 1
Laboratory experience demonstrates how astronomy is practiced through observation experiences, laboratory experiments, and exercises involving analysis of data. Specific experiences illuminate topics presented in AST101. Must take with AST 101 to receive credit. Co-requisite: AST 101 lecture. *Prerequisites:* AST 101

AST 112 - Astr Stellar Sys Lab - 1
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. Must take AST 102 to receive credit. Co-requisite: AST 102 lecture. *Prerequisites:* AST 102

AST 113 - Ast of Solar Sys Lab - 1
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. Co-requisite: AST 103 lecture. *Prerequisites:* AST 103

AST 115 - Extraterrestrial Life Lab - 1
Laboratory experience illuminates topics presented in AST 105. Must take AST 105 to receive credit. Corequisite: AST 105 lecture. *Prerequisites:* AST 105

Course Descriptions
Physical Science (PHS)

PHS 101 - Physical Science - 4
Scientific method and hands-on experience with integrated laboratory, discussion, and lecture. For non-science majors. Lecture and laboratory. *Prerequisite:* Completion of Core Curriculum mathematics requirement (Core Area III). *Co-requisite:* PHS 101L laboratory.

PHS 101L - Physical Science Lab – 0
Co-requisite: PHS 101 Lecture

PHS 110 - Overview of Space Exploration - 3
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
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*: Completion of Core Curriculum Mathematics requirement.

PHS 150 - Science Writing - 3
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 Nature of Matter - 3
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.

Course Descriptions
Physics (PH)

PH 100 – Preparatory Physics -3
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.

PH 191 - Co-op Work Program - 2 to 3
Co-Op Work Program.

PH 201 - College Physics I - 4
First term of non-calculus based physics. Linear and planar motion, Newton's Laws, work and energy, gravitation, momentum, rigid body motion, statics, elasticity, oscillations, waves, sound, fluids, ideal gases, heat, and thermodynamics. Lecture and laboratory. *Prerequisites:* C or better in MA 106 or MA 107, or their equivalent *Co-requisite:* PH 201L and PH 201R

PH 201L - College Physics Lab I - 0
Laboratory for PH 201. *Co-Requisite:*PH 201

PH 201R - College Physics I - Recitation - 0
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 and laboratory. *Co-Requisite*: PH 201

PH 202 - College Physics II - 4
Second term of non-calculus based physics. Electricity and magnetism, optics, and modern physics. Lecture and laboratory. *Prerequisites:* PH 201 *Co-requisites:* PH 201L and PH 202R

PH 202L - College Physics Lab II - 0
Laboratory for PH 202. *Co-requisite:* PH 202

PH 202R - College Physics II Recitation - 0
Second term of non-calculus based physics sequence covering electricity and magnetism, optics, and modern physics. Lecture and laboratory. *Co-requisite:* PH 202

PH 221 - General Physics I - 4
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, fluid dynamics, wave motion, sound, thermodynamics, and kinetic theory. Lecture and laboratory. *Prerequisites:* C or better in MA 125, or its equivalent. *Co-requisite*: PH 221L and PH 221R.

PH 221L - General Physics Lab I - 0
Laboratory for PH 221. *Co-requisite:* PH 221

PH 221R - General Physics I - Recitation - 0
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, fluid dynamics, wave motion, sound, thermodynamics, and kinetic therory. Lecture and laboratory. *Co-requisite:* PH 221

PH 222 - General Physics II - 4
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 and laboratory. *Prerequisites:* MA 126 and PH 221 *Co-requisite:* PH 222L and PH 222R.

PH 222L - General Physics Lab II - 0
Laboratory for PH 222.

PH 222R - General Physics II Recitation - 0
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 and laboratory. *Co-Requisite:* PH 222

PH 301 - Instructional Astronomy I - 4
Survey of selected topics in astronomy of the universe, stellar systems and solar systems with a focus on preparing to teach. *Co-requisite:* PH 301L

PH 301L - Instructional Astronomy Lab - 0
Laboratory for PH 301. *Co-requisite*: PH 301

PH 302 - Instructional Physical Science - 4
Lecture and discussion in areas of Physical Sciences of importance to basic scientific literacy and to current technology, with a focus on preparing to teach. *Co-requisite*: PH 302L

PH 302L - Instruct Physical Sci Lab - 0
Laboratory for PH 302. *Co-requisite:* PH 302

PH 304 - Intermediate Mechanics - 3
Intermediate treatment of the kinematics and dynamics of classical systems. Presentation of problem solving techniques is emphasized. *Prerequisites:* PH 222

PH 305 - Intermediate Electricity/Magnetism - 3
Intermediate treatment of electricity and magnetism including fields, potential, induction, Maxwell's equations, circuits. Presentation of problem solving techniques is emphasized. *Prerequisites:* PH 222

PH 331 - Classical Thermodynamics - 3
Introduction to thermal phenomena on a macroscopic and statistical basic, principles and laws governing them. *Prerequisites:* MA 227 and PH 222

PH 351 - Modern Physics I - 4
Atomic, molecular, solid-state physics; quantum mechanics, lasers and nanotechnology. Theoretical and experimental studies to understand observable properties of matter in terms of microscopic constituents. Lecture and laboratory. *Prerequisites:* PH 222 *Co-requisite:* PH 351L

PH 351L - Modern Physics I Lab - 0
Laboratory for PH 351. *Co-requisite:* PH 351

PH 352 - Modern Physics II - 4
Statistical mechanics and thermodynamics, semiconductors, nuclear and particle physics, special and general relativity, cosmology. Includes student presentations. Lecture and laboratory. *Prerequisites:* PH 351 *Co-requisite:* PH 352L

PH 352L - Modern Physics II Lab - 0
Laboratory for PH 352. *Co-requisite:* PH 352

PH 397 - Directed Reading in Physics I - 2 to 3
Tutorial studies in physics offered by special arrangement. See HON 397.

PH 398 - Directed Reading in Physics II - 2 to 3
Tutorial studies in physics offered by special arrangement.

PH 420 - Math Methods of Physics I - 3
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:* MA 252 and PH 222

PH 421 - Math Methods of Physics II - 3
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

PH 423 - Computational Physics - 3
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 and PH 222

PH 425 - Appl of Contemporary Optics I - 3
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

PH 426 - Appl of Contemporary Optics II - 3
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

PH 427 - Geometrical Optics - 4
Properties of optical systems. Lenses, mirrors, and stops, Aberrations, Rays and wave fronts, optical instruments, aspheric components. Lecture and Lab. *Prerequisite:*PH 222 or equivalent. *Co-requisite:* PH427L

PH 427L - Geometrical Optics Lab - 0
Laboratory for PH 427. *Co-requisite:* PH427

PH 428 - Physical Optics - 4
Interference and diffraction phenomena. Emission, propagation, and absorption of radiation. Polarization and dispersion. Stimulated emission. Lecture and laboratory. *Prerequisites:* PH 222. *Co-requisite:* PH 428L

PH 428L - Physical Optics Lab - 0
Laboratory for PH 428. *Co-requisite:* PH 428

PH 429 - Appl Contemporary Optics III - 3
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 and PH 426

PH 432 - Statistical Thermodynamics I - 3
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 352

PH 433 - Statistical Thermodynamics II - 3
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 and PH 450

PH 445 - Electromagnetic Theory I - 3
Electromagnetic theory approached from the standpoint of fields and using Maxwell's equations. *Prerequisites:* PH 222

PH 446 - Electromagnetic Theory II - 3
Electromagnetic theory approached from the standpoint of fields and using Maxwell's equations. *Prerequisites:* PH 445

PH 450 - Intro Quantum Mechanics I - 3
Principles of quantum mechanics and their application to particle waves, angular momentum, tunneling, radiation, and selection rules. Perturbation and variational methods. *Prerequisites:* PH 351 and PH 461. PH 352 recommended.

PH 451 - Intro Quantum Mechanics II - 3
Principles of quantum mechanics and their application to particle waves, angular momentum, tunneling, radiation, and selection rules. Perturbation and variational methods. *Prerequisites:* PH 450. PH 352 recommended.

PH 453 - Intro Solid State Physics I - 3
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

PH 454 - Intro Solid State Physics II - 3
Properties of crystal lattices, lattice dynamics, lattice imperfections, and bonding energies. Electronic properties of dielectrics, semiconductors, and metals. *Prerequisites:* PH 451 and PH 453

PH 455 - Molecular Spectroscopy - 3
Molecular Spectroscopy.

PH 461 - Classical Mechanics I - 3
Kinematics and dynamics, including central forces, rotating coordinate systems, and generalized coordinates. Lagrangian, Hamiltonian, and other equivalent formulations of mechanics. *Prerequisites:* MA 252 and PH 222

PH 462 - Classical Mechanics II - 3
Kinematics and dynamics, including central forces, rotating coordinate systems, and generalized coordinates. Lagrangian, Hamiltonian, and other equivalent formulations of mechanics. *Prerequisites:* PH 461

PH 467 - Special Relativity - 3
Principles and foundations of special relativity with applications to mechanics and electrodynamics. *Prerequisites:* PH 446 and PH 462

PH 468 - General Relativity - 3
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
Explanation of phenomena related to rotational, vibration, and electronic spectroscopy of atoms and molecules; operational principles of spectroscopic tools including diffraction grating, wave guides, and interferometers, basic group theory concepts and notation. *Co-Requisite:*PH 351

PH 475 - Intro to Biophysics I - 3
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 352

PH 476 - Intro to Biophysics II - 3
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

PH 481 - Laser Physics I - 3
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. *Prerequisites:* PH 222 *Co-requisite:*PH 481L

PH 481L - Laser Physics I Laboratory - 0
Laboratory for Physics 481. *Co-requisite:* PH 481

PH 482 - Laser Physics II - 3
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. *Prerequisites:* PH 481 *Co-requisite:* PH 482L

PH 482L - Laser Physics II Lab - 0
Laboratory for PH 482. *Co-requisite:* PH 482

PH 485 - Laser Spectroscopy - 3
Fundamental principles, experimental techniques, instrumentation, and practical applications of laser spectroscopy.

PH 486 - Semiconduct Matls in Mod Tech - 3
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 or EE 351 or CH 326

PH 487 - Nanoscale Science and Appl - 3
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 and PH 222) or (CH 115 and CH 117)

PH 490 - Preparations for Teaching - 1
This class is intended to help teaching assistants prepare for successful teaching experiences. The course will emphasize a foundation of practical knowledge related to expectations and duites shared by teachers in higher education, as well as an opportunity to read, reflect, and discuss current research related to teaching and learning at the university level.

PH 491 - Advanced Physics Lab I - 1 to 4
Laboratory investigation of topics of modern physics. *Prerequisites:* PH 352

PH 492 - Advanced Physics Lab II - 1 to 4
Laboratory investigation of topics of modern physics. *Prerequisites:* PH 352

PH 493 - Advanced Physics Lab III - 1 to 4
Laboratory investigation of topics of modern physics. *Prerequisites:* PH 352

PH 495 - Honors Research - 3
Research in an area of active research, under the direction of a faculty sponsor and the Honors Committee. May be repeated.

PH 498 - Directed Research - 1 to 6
Directed Research.

PH 499 - Physics Capstone - 3
Instructional session, 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.

School of Nursing

Dean: Doreen C. Harper, PhD, RN, FAAN
Associate Dean for Academic Affairs: Elizabeth Stullenbarger, DSN, RN
Associate Dean for Clinical Affairs and Partnerships: K. Alberta McCaleb, DSN, RN
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, prepares nurse leaders to excel as clinicians, researchers, and educators; and advances knowledge and the delivery of high quality health care in Alabama and worldwide.

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 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 write the national licensing examination (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 who:

- Apply theoretical and empirical knowledge from nursing, scientific and humanistic disciplines to make evidence-based practice decisions.
- Participate in quality improvement processes to provide high quality, safe nursing care in a variety of settings.
- Engage in critical inquiry to improve the nursing care of individuals, families, groups, and communities.
- Use information technology and patient data for ethical, clinical decision-making.
- Advocate for the healthcare needs of society in a changing economic, demographic, and cultural environment.
- Demonstrate effective communication and collaboration skills with patients and interprofessional teams to improve healthcare outcomes.
- Provide professional nursing care to individuals and populations that includes health promotion and maintenance, illness care, end-of-life care, restoration, and rehabilitation.
- Demonstration a commitment to professional nursing values, ethical practice, and life-long learning.
- Demonstrate the ability to independently and collaboratively apply the problem-solving process to facilitate patient, family, and community adaptation to internal and external environmental variables for the purpose of achieving maximum health.

Admission to the School of Nursing

All students interested in pursuing the Bachelor of Science in Nursing (BSN) degree at the University of Alabama at Birmingham must first meet the University's admission requirements for regular status and be admitted as a pre-nursing student.

There is a separate process for admission into the School of Nursing. The application materials for admission to the BSN program are obtained from the student's assigned UAB Pre-Nursing advisor (Office of General Studies). Applications will be distributed to students when appropriate pre-nursing prerequisite courses have been completed or are in the last term of enrollment and the designated GPAs have been attained. Admission to the BSN program is available for the fall and spring term.

Admission Requirements for BSN Degree: Generic/Traditional Option

- The minimum overall 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 overall 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 in each course 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 overall GPA must be a 2.75 or greater on all coursework.

- Admission decisions are 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.

- 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.

- 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.

Meeting minimum School of Nursing admission requirements does not guarantee admission to the program. Admission is based upon the academic record, admission application, which includes all supporting documents, and space availability. When the number of applicants who meet minimum requirements exceeds the number of student spaces

UAB High School Nurse Scholars

http://main.uab.edu/sites/nursing/programs/bachelor/scholars

UAB Pre-Nursing Scholars

http://main.uab.edu/sites/nursing/programs/bachelor/9013

For additional information please contact the Student Affairs Office, School of Nursing, @ 205-975-7529 or visit our web site www.uab.edu/son.

BSN Application Deadlines:

2009 Spring September 26, 2008
2009 Fall April 3, 2009
2010 Spring September 4, 2009

UNIVERSITY REQUIREMENTS FOR NURSING

Requirement	Fulfilled By:
Credit Hours	In order to receive a degree in Nursing at UAB, a student must have at least 121 semester hours of acceptable credit.

CORE CURRICULUM FOR NURSING

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following: **EH 101 EH 102**	6
Area II: Literature	Select one of the following courses (student needs either a 6 hour sequence of literature or history; if literature sequence, select 2 course sequence): **EH 216 EH 218 EH 222 EH 224 EH 221 + EH 222** **EH 217 EH 221 EH 223 EH 217 + EH 218 EH 223 + EH 224**	3 (6)
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Humanities	Select one of the following courses: **AAS 200 GN 102 PHL 125 ITL 101** **CM 101 GN 201 PHL 203 ITL 102** **CM 105 GN 202 SPA 101 JPA 101** **FR 101 GN 204 SPA 102 JPA 102** **FR 102 PHL 100 SPA 201 LA 101** **FR 201 PHL 115 SPA 202 LA 102** **FR 202 PHL 116 CHI 101** **GN 101 PHL 120 CHI 102**	3
Area II: Elective	If taking only 3 hours of literature and not the literature sequence, select one course not previously selected from Area II as an elective: **AAS 200 CHI 102 FR 101 GN 204 SPA 101** **ARH 101 EH 216 FR 102 MU 120 SPA 102** **ARH 203 EH 217 FR 201 PHL 100 SPA 201** **ARH 204 EH 218 FR 202 PHL 115 SPA 202** **ARH 206 EH 221 GN 101 PHL 116 THR 100** **CM 101 EH 222 GN 102 PHL 120 THR 105** **CM 105 EH 223 GN 201 PHL 125 THR 200** **CHI 101 EH 224 GN 202 PHL 203**	3
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area III: Natural Sciences	Take the following course with laboratory: **CH 105 + CH 106**	4
Area III: Natural Sciences	Select one of the following courses with laboratories (If a student takes Microbiology at UAB, please contact your pre-nursing advisor for appropriate required course. **BY 101 + BY 102 BY 124 CH 117 + CH 118 PH 202 + PH 202L** **BY 111 + BY 112 CH 107 + CH 108 ENV 108 + ENV 109 PH 221 + PH 221L** **BY 123 CH 115 + CH 116 PH 201 + PH 201L PH 222 + PH 222L**	4

Area IV: History	Select one of the following courses (student needs either a 6 hour sequence of literature or history; if history sequence, select 2 course sequence): **HY 101 HY 102 HY 120 HY 121 HY 101 + HY 102** **HY 120 + HY 121**	3 (6)
Area IV: Psychology	Select the following course: **PY 101**	3
Area IV: Elective	If taking only 3 hours of history, and not the history sequence, select one course not previously selected from Area IV as an elective: **ANTH 101 EC 211 HY 120 PSC 121 SOC 100** **ANTH 106 GEO 121 HY 121 PSC 122 SOC 245** **ANTH 120 HY 101 ITS 101 PSC 212 WS 100** **EC 210 HY 102 ITS 205**	3
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218 HY 101 + HY 102** **EH 221 + EH 222 HY 120 + HY 121** **EH 223 + EH 224**	-
	Total Core Curriculum Requirements:	**38**

PRE-NURSING REQUIREMENTS

Requirement	Fulfilled By:	Hrs.
Required Pre-Nursing Courses	Take all of the following courses: **BY 115 PY 212 NTR 222** **BY 116 BY 261**	18
Statistics	Select one of the following courses: **MA 180 PY 214 QM 214 JS 120**	3
	Total Pre-Nursing Requirements:	**21**

REQUIREMENTS FOR MAJOR IN NURSING

Requirement	Fulfilled By:	Hrs.
Required Nursing	Take all of the following courses (NUR): **345L 365 376 396L 446L** **346 or BY 346 366L 385 435 455** **355 370 386L 436L 456L** **356L 374 395 445**	59
Nursing Electives	Select three hours from **Nursing (NUR)** courses that are not required.	3
	Total Major Requirements:	**62**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Pre-application minimum of 63 semester hours	Successful completion of all core and pre-nursing requirements and a minimum of 63 semester hours are prerequisites for admission to the School of Nursing.
Grade of C or greater	Required for all core, pre-nursing and major in nursing courses.
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.

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.

	Semester Hrs.
BY 115 Human Anatomy	4
BY 116 Human Physiology	4
BY 261 Introduction to Microbiology	4
CH 105 and 106 Lab Introductory Chemistry I, Inorganic	4
CH 107 and 108 Lab Introductory Chemistry II, Organic*	4
EH 101 English Composition	3
EH 102 English Composition	3
MA 105 Precalculus I or MA 110 Finite Mathematics	3
PY 212 Developmental Psychology	3
Descriptive Statistics	3
Nutrition	3

***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

Arts	3
History*	3 (or 6)*
Humanities	3
Literature*	3 (or 6)*
Elective, Area II	3
Elective, Area IV	3
NUR 100	2
NUR 101	2

***Student needs either a 6 hour sequence of literature or history.**

Professional Nursing Courses

These courses are taught after admission into the School of Nursing

Fall/Spring admission

NUR 355	Foundations of Professional Nursing	4
NUR 356L	Foundations of Professional Nursing Practicum	3
NUR 345L	Basic Nursing and Health Assessment Skills	4
BY 346	Pathophysiology for Professional Nursing	3
NUR 365	Maternal-Newborn & Women's Health Nursing	3
NUR 366L	Maternal-Newborn & Women's Health Practicum	2
NUR 368	Honors Seminar I: Intro to Nursing Scholarship & Informatics	1*
NUR 370	Clinical Pharmacology	3
NUR 374Q	Informatics & Research for Nursing Practice	4
NUR 385	Nursing of the Psychiatric Mental Health Client	3
NUR 386L	Nursing of the Psychiatric Mental Health Client Practicum	2
NUR 395Q	Community & Public Health Nursing	3
NUR 396QL	Community & Public Health Nursing Practicum	2
NUR 376	Nursing of the Older Adult	3
NUR 435	Nursing of the Adult	4
NUR 436L	Nursing of the Adult Practicum	3
NUR 445	Nursing of the Child and Adolescent	3
NUR 446L	Nursing of the Child and Adolescent Practicum	2
NUR 455Q	Leadership & Management in Professional Nursing	3
NUR 456QL	Leadership & Management in Professional Nursing Practicum	5
NUR 484	Honors Seminar II: Project Development	3*
NUR 486	Honors Seminar III: Project Implementation	3*
NUR ___	Elective	3

***Honors sequence only for those accepted into the Honors in Nursing Program.**
NUR 486 may also be taken for graduate credit.

Departmental 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; and
- 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. Ellen Buckner DSN, RN
Coordinator of Honors in Nursing
UAB School of Nursing
Telephone: (205) 934-6799
E-mail: bucknere@uab.edu

Admission Requirements for the BSN Degree: RN-BSN Mobility Option

The RN-BSN Mobility Program for registered nurses (RNs) 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, spring, and summer 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.
- Admission grade point average of at least 2.5 on a 4.0 scale.
- A grade of at least "C" in Human Anatomy, Human Physiology, Microbiology, Descriptive Statistics, and an elective (Area V courses). 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 coordinator of the RN Mobility Program or designee (can be done before applying to UAB).
- RN-BSN Mobility students are eligible for the Honors in Nursing Program .

Meeting minimum School of Nursing admission requirements does not guarantee admission to the program. Admission is based upon the academic record, admission application (and all supporting documents) and space availability. When the number of applicants who meet minimum requirements exceeds the number of student spaces available, the best-qualified applicants will be admitted.

Core Curriculum Requirements

Please see Core Curriculum for Nursing under the BSN Generic/Traditional Option

PRE-NURSING REQUIREMENTS

Requirement	Fulfilled By:	Hrs.
Required Pre-Nursing Courses	Take all of the following courses : **BY 115 PY 212** **BY 116 BY 261**	15
Statistics	Select one of the following courses: **MA 180 PY 214 QM 214 JS 120**	3
Elective	Any course not used to satisfy another requirement may be taken from any area. Recommended courses include NTR 222, SOC 100, SOC 245, PHL 125 or a foreign language, especially Spanish.	3
	Total Pre-Nursing Requirements:	**21**

REQUIREMENTS FOR MAJOR IN NURSING (RN-BSN MOBILITY)

Requirement	Fulfilled By:	Hrs.
Required Nursing	Select all courses below. A block of 32 credit hours for previous nursing experience and coursework is awarded after completion of these courses: **NUR 347 NUR 374 NUR 474 NUR 475**	15
Required Nursing for Mobility	Take all of the following courses: **NUR 378 NUR 397 NUR 457 NUR 458L**	12
Nursing Electives	Select three hours from **Nursing (NUR)** courses not used to satisfy other requirements.	3
	Total Major Requirements:	**30**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
RN License	Only students who are licensed RNs may complete the Mobility curriculum.
Pre-Application Advisor Contact	Students interested in the RN Mobility program must contact Dr Rhonda McLain at 205-996-5343 or Rho211@uab.edu before submitting an application.

Progression Requirements

The RN student who has successfully completed all prerequisite courses along with NUR 474, will receive equivalency credit of 32 semester hours for specified clinical nursing courses.

Flexible Scheduling

This distance-accessible option offers RNs the flexibility of completing 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. This 3 semester hour course can be completed over 1, 2, or 3 terms.

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;

	Semester Hrs.
BY 115 Human Anatomy	4
BY 116 Human Physiology	4
BY 261 Introduction to Microbiology	4
CH 105 and 106 Lab Introductory Chemistry I, Inorganic	4
Additional lab science course	4
EH 101 English Composition	3
EH 102 English Composition	3
MA 105 Precalculus I or MA 110 Finite Mathematics	3
PY 212 Developmental Psychology	3
Descriptive Statistics	3
Nutrition (RN Mobility students can substitute another course)	3

Additional General Studies Courses

Fine Arts	3
Literature	3
Humanities	3
History	3
Introduction to Psychology	3
Elective from Area IV or History (If literature sequence completed, can do an elective from Area IV)	3
Elective from Area II or Literature (If literature sequence completed, can do an elective from Area IV)	3

***Student needs either a 6 hour sequence of literature or history.**

Professional Nursing Courses:

NUR 347Q	Pathophysiology for Professional Nursing Practice	3
NUR 374Q	Informatics and Research for Nursing Practice	4
NUR 378Q	Nursing of the Older Adult for RNs	3
NUR 397Q	Community and Public Health Nursing for RNs	3
NUR 457Q	Leadership and Management in Professional Nursing for RNs	3
NUR 458QL	Clinical Practicum for RNs	3
NUR 474Q	Transition to Professional Nursing Practice	4*
NUR 475Q	Health Assessment Across the Lifespan for RNs	4
NUR ___	Elective	3

***32 credits of validated courses from previous nursing content will be awarded after successful completion of NUR 474.**

Admission Requirements for the RN-BSN-MSN Mobility Option

Admission to the RN-BSN-MSN option is available in the fall, spring, and summer terms. Students will apply to the MSN program during their last term prior to completing requirements for the BSN degree.

Requirements for admission to the RN-BSN-MSN degree:
For study leading to the BSN degree:

- Admission to UAB as a regular pre-RN Mobility student through the UAB Admissions Office;
- Admission grade point average of at least 2.5 (4.0 scale);
- A grade of at least "C" in Area V courses (human anatomy, human physiology, microbiology, descriptive statistics, and an elective). RN Mobility students entering the RN-BSN- MSN Program must have descriptive statistics within seven (7) years of taking the graduate level research course;
- 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; and
- Advisement with the coordinator of the RN Mobility Program or designee (can be done before applying to UAB).

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 1000 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. For complete details please visit http://www.uab.edu/images/sonimg/PDF/GREMAT_waiver.pdf. 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.

Meeting minimum School of Nursing admission requirements does not guarantee admission to the program. Admission is based upon the academic record, admission application (and all supporting documents), and space availability. When the number of applicants who meet minimum requirements exceeds the number of student spaces available, the best-qualified applicants will be admitted.

Progression Requirements

The RN student who has successfully completed all prerequisite course along with NUR 474 will receive equivalency credit of 32 semester hours for specified clinical nursing courses.

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.

RN-BSN-MSN Course Requirements

BSN Foundation Courses

Grades for these courses will be used to calculate the BSN Foundation grade point average used for admission to the School of Nursing;

	Semester Hrs.
BY 115 Human Anatomy	4
BY 116 Human Physiology	4
BY 261 Introduction to Microbiology	4
CH 105 and 106 Lab Introductory Chemistry I, Inorganic	4
Another lab science course	4
EH 101 English Composition	3
EH 102 English Composition	3
MA 105 Pre-calculus I or MA 110 Finite Mathematics	3
PY 212 Developmental Psychology	3
Descriptive Statistics	3
Nutrition (RN Mobility students can substitute another course)	3

Additional General Studies Courses

Fine Arts	3
Literature	3
Humanities	3
History	3
Introduction to Psychology	3
Elective or History (If literature sequence completed, can do an elective from Area IV)	3
Elective from Area II or Literature (If literature sequence completed, can do an elective from Area IV)	3

***Student must complete either a 6 hour sequence of literature OR history. If the student elects to complete a history sequence, student can take an Area II elective. If the student elects to complete a literature sequence, student can take an Area IV elective.**

Professional Nursing Courses:

NUR 347Q	Pathophysiology for Professional Nursing Practice For RNs	3
NUR 374Q	Informatics and Research for Nursing Practice	4
NUR 378Q	Nursing of the Older Adult for RNs	3
NUR 397Q	Community and Public Health Nursing for RNs	3
NUR 458Q	Clinical Practicum for RNs	3
NUR 474Q	Transition to Professional Nursing Practice	4
NUR 475Q	Health Assessment Across the Lifespan for RNS	4
NUR 601Q	Role Development for Advanced Nursing Practice	3
NUR 601Q	Issues Affecting Advanced Nursing Practice	3

Additional graduate courses are required to complete the MSN, specific courses are dependent upon program of study selected. For additional information, contact the School of Nursing Office of Student Affairs, (205) 975-7529.

Second Degree BSN Students Course Requirements

Traditional Entry (http://main.uab.edu/sites/nursing/programs/bachelor/8985)
Accelerated Entry (http://main.uab.edu/sites/nursing/programs/36755)

Individuals who have completed a previous undergraduate degree, outside the field of nursing, and who have met the UAB criteria for regular undergraduate 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. Second degree students are admitted Fall and Spring terms.
Second-degree applicant requirements:

- Earned at least a bachelor's degree in a major other than nursing at a regionally accredited institution.
- The first degree must be based on at least 120 semester hours of accredited work.
- A minimum grade of "C" in the pre-nursing courses and a BSN Foundation GPA of at least 2.75.
- 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://studentaffairs.sass.uab.edu/admissions/application/ 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 in the Division of General Studies 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:

- BY 115 Human Anatomy (4 hours)
- BY 116 Human Physiology (4 hours)
- BY 261 Introduction to Microbiology (4 hours)
- CH 105 and 106 Lab Introductory Chemistry I, Inorganic (4 hours*)
- CH 107 and 108 Lab Introductory Chemistry II, Organic (4 hours*)
- MA 105 Pre-Calculus I or MA 110 Finite Mathematics (3 hours)
- PY 212 Developmental Psychology (3 hours)
- Descriptive Statistics (3 hours)
- Nutrition (3 hours)

***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 is 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 at www.uab.edu/son.

Course Descriptions
Nursing (NUR)

NUR 101 - Survey of the Profession of Nursing - 2
NUR 101 will introduce nursing as a profession, including role development, basic skills, and professional and ethical behavior. 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 care and why it is different from the medical model. Students will also take various aptitude tests, providing feedback that will guide them in a decision to apply to the SON or possibly redirect their professional goals.

NUR 333 - Growth and Development - 3
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 335 - Issues in Women's Health - 3
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 345L - Basic Nursing and Health Assessment Skills - 4
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.

NUR 346 - Pathophysiology for Professional Nursing - 3
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
This course builds on basic anatomy and physiology to provide the adult learner with an opportunity to apply previously

NUR 355 - Foundations Professional Nursing - 4
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.

NUR 356L - Foundations Professional Nursing Practicum - 3
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
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 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 neonatal period. Content builds upon pact knowledge from the scientific and humanistic disciplines and contributes to the body of knowledge necessary for future nursing courses. *Prerequisites:* NUR 355 and NUR 356L and NUR 345L and (NUR 346 or BY 346)

NUR 366L - Maternal-Newborn and Women's Health Practicum - 2
This course provides the opportunity for the student to use skills gained in the previous courses. Care of women of childbearing age and their reproductive health involves application of all previously learned assessment and clinical skills, as well as newly acquired ones. In addition, knowledge of family dynamics and cultural diversity is required to provide care for individuals within the family during the childbearing phase of life. This course prepares students with skills in neonatal assessment that are foundational in the care of infants and children. The course expands knowledge of families in preparation for practice in the community. *Prerequisites:* NUR 355, and NUR 356L and NUR 345L and (NUR 346 or BY 346)

NUR 367 - Psychosocial Aspects Evidence-Based Practice in Chronic Illness - 3
This course is organized around the concepts of evidence-based practice, psychosocial nursing and chronic illness. The chronic illness trajectory across the individual's and family's life span and the needs of vulnerable populations with attention to disparity of care and cultural competence of involved health care providers is included. This course is designed to provide the undergraduate student with the basic knowledge and skills needed to provide evidence-based interventions and the graduate student to analyze needs for development of interventions to address the psychosocial needs of those with chronic illness.

NUR 368 - Honors Seminar I - 1
This course is designed to prepare students with knowledge and skills to begin a scholarly investigation applicable to a clinical or research problem in nursing. Students will (1) discover emerging trends of evidence-based practice and information technology that are transforming nursing practice through presentations by faculty and agency partners (clinicians. researchers, librarians, nursing informatics specialists, international collaborators); (2) locate and evaluate primary source literature relevant to nursing practice; and (3) explore mentorships for Honors work. Admission to the Honors in Nursing Program required.

NUR 370 - Clinical Pharmacology - 3
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. *Prerequisites:* NUR 355 and NUR 356L and NUR 345L and (NUR 346 or BY 346)

NUR 371 - Health Teaching - 3
This elective course emphasizes the choice of appropriate teaching strategies, which are specific to learning needs identified in clients across the lifespan. Principles of client teaching in a variety of health care settings will be discussed. Approaches to writing behavioral objectives, development of teaching materials that match selected teaching methods/techniques, and methods of evaluation will be examined. Economic, social, political, and cultural issues related to health teaching will be discussed.

NUR 372 - Camp Nursing - 3
The purpose of this course is to provide the student with opportunities to apply the nursing process in a camp setting. Focus is on integrating health history, medication administration and provision of nursing care to children who are adapting in a camp setting. Course content includes readings on health and safety standards, common health problems, treatment of common illnesses occurring in camp population and exploration of developmental considerations. Students gain knowledge of the role of professional nursing through clinical experiences in a camp setting. The course introduces the nursing process in a camp setting designed for special needs children and adults. *Prerequisites: (*NUR 350 or NUR 345L) and NUR 355 and NUR 356L and (NUR 346 or BY 346)

NUR 373 - Peri-Operative Nursing - 3
This elective course allows application of nursing process in a peri-operative setting. Emphasis is placed on mastery of aseptic technique and hemodynamic monitoring of patients experiencing surgery.

NUR 374 - Informatics and Research for Nursing Practice - 4
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 outcomes. Admission to the School of Nursing is required. *Prerequisites:* NUR 355 and NUR 356L and NUR 345L and (NUR 346 or BY 346) or admission to the RN Mobility Program

NUR 375 - Critical Care Nursing of the Adult I - 3
This elective course provides theoretical concepts for students to understand essential information related to nursing care of adults with critical or life-threatening health conditions. Students will analyze patient care situations related to nursing diagnoses, therapeutic interventions, and factors associated with achievement of desired clinical outcomes in clients with high acuity, critical health situations. *Prerequisite:* NUR 435

NUR 376 - Nursing of the Older Adult - 3
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 and NUR 356L and NUR 345L and (NUR 346 or BY 346)

NUR 377 - Anthropology and the Health Professional - 3
This elective course focuses on the importance of similarities and differences among groups of humans from various cultures and the influence of these variances for the health care professional. Required completion of ANTH 101 or permission of instructor.

NUR 378 - Nursing of Older Adults for RNs - 3
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
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 - Informatic Research Nu Prac - RN - 4
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.

NUR 383 - Health Literacy - 3
This course 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. Students will be introduced in interventions and planned programs from the Institutes of Medicine and Center for Medicare Education that have proven to be effective in the identification of low health literacy in America. 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
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. Co-requisites: NUR 386L; NUR 370 is a pre or co-requisite. *Prerequisites:* NUR 355 and NUR 356L and NUR 345L and (NUR 346 or BY 346) and NUR 370

NUR 388L - Nursing of the Psychiatric Mental Health Client Practicum– 2
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 and NUR 356L and NUR 345L and (NUR 346 or BY 346)

NUR 390 - Independent Study in Nursing - 1 to 6
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 to 6
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 395 - Community and Public Health Nursing - 3
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 aggregate groups in various community settings. *Co-requisite:* NUR 395

NUR 396L - Community and Public Health Nursing Practicum - 2
In this practicum course, students participate in the practice of nursing at assigned community-based clinical facilities and apply community and public health concepts in simulated clinical activities. Students analyze theories, processes, issues, and trends that affect the delivery of healthcare to 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 aggregate groups in various community settings. *Prerequisites:* All other 300 level courses in the program of study. *Co-requisite:* NUR 395.

NUR 397 - Community and Public Health Nursing for RNs - 3
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 aggregate groups in various community settings. *Prerequisites:* NUR 374 and NUR 474 and NUR 475

NUR 419 - Health Issues of African Americans and Latinos in the United States - 3
This course provides students with an overview of health issues and health disparities confronting African American and Latinos 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. *Prerequisites:* School of Nursing Undergraduate (who has completed NUR 364) or permission of the instructor.

NUR 435 - Nursing of the Adult - 4
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:* All 300 level courses in the program of study with the exception of NUR 374 and NUR 376, which may be taken prior to or concurrent with NUR 436L. NUR 395 and the related practicum will be taken after NUR 435 by those students admitted in the spring term. *Co-requisite:* NUR

NUR 436L - Nursing of the Adult Practicum - 3
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.

NUR 437 - Principles of Genetics - 3
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
In this elective course, concepts of integrative health care and major complemental therapies will be considered in light of the emerging paradigms and utilization within health care.

NUR 441 - Herbals and Nutrition Supplements - 3
In this elective course, focus is placed upon the safe, effective use of herbal remedies and nutritional supplements. Completion of NUR 350 or permission of instructor is required.

NUR 442 - Health, Education and Social Welfare in a Global Community - 3
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
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. *Prerequisite:* NUR 364

NUR 445 - Nursing of the Child and Adolescent - 3
NUR 445 Nursing of the Child and Adolescent 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. *Prerequisites:* All 300 level courses in the program of study with the exception of NUR 374 and NUR 376, which may be taken prior to or concurrent with NUR 436L. NUR 395 and the related practicum will be taken after NUR 445 by those students admitted in the spring term. *Co-requisite:* NUR 446L.

NUR 446L - Nursing of the Child and Adolescent Practicum - 2
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:* All 300 level courses in the program of study with the exception of NUR 374 and NUR 376, which may be taken prior to or concurrent with NUR 436L. NUR 395 and the related practicum will be taken after NUR 446L by those students admitted in the spring term. *Co-requisite*: NUR 445.

NUR 455 - Leadership and Management in Professional Nursing - 3
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 and NUR 436L and NUR445 and NUR 446L

NUR 456L - Leadership and Management in Professional Nursing Practicum - 5
This 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. *Prerequisites:* All other 300 and 400 level courses in the program of study with the exception of NUR 395 and the related practicum 396L, which may be taken prior to or concurrent with NUR 456L.

NUR 457 - Leadership and Management in Professional Nursing for RNs - 3
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. *Prerequisites:* NUR 397

NUR 458L - Clinical Practicum for RNs - 1 to 3
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. The student will work with a faculty member to develop individualized objectives consistent with course expectations. Specific experiences will provide the student with opportunities to work with aggregate groups within the community. Additional activities will allow the student to develop leadership/management skills while working with a leader/manager preceptor. NUR 397 is a pre or co-requisite

NUR 461 - Nursing Management of Donor and Transplant Client and Family - 2
Elective course designated to provide basic theoretical knowledge related to nursing care of the donor and transplant client and their families. Content focuses on historical and current issues in donor/transplant nursing, including the impact of legal, ethical, political, economic, socio-cultural, and spiritual issues. Students will examine the role of the professional nurse and the interdisciplinary team in the management of care for donor/transplant clients and their families.

NUR 462 - Neonatal Behavior Assessment in Clinical Nursing Practice - 2
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
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 364 or (NUR 365 and NUR 366L)

NUR 466 - Camp Nursing of Special Populations - 3
This elective course allows the application of nursing process in a camp setting with clients who have special needs. Focus is on caring for campers and provision of nursing care to children who are adapting to special internal and external environmental variables. Required completion of NUR 362 or permission of instructor.

NUR 470 - Nursing of Childrearing Families - 6
A clinical course providing the opportunity to utilize nursing process and critical thinking skills in the provision of professional nursing care to families with children from infancy through adolescence. Content includes health promotion, maintenance and restoration in families adapting to common and/or complex internal and external environmental variables that affect children. Clinical experiences are in primary and secondary settings. *Prerequisites:* NUR 362 and NUR 364

NUR 472 - Nursing of the Mental Health Client - 6
A clinical course focused on promotion, maintenance, and restoration of the mental health of individuals and families. Emphasis is placed on communication and therapeutic nursing intervention for clients adapting to internal and external environmental variables affecting mental health and psychopathology. Experiences in the therapeutic use of self, critical thinking and nursing process with clients in primary and secondary clinical settings. NUR 470 is a pre or corequisite. *Prerequisites:* NUR 362 and NUR 364

NUR 474 - Transition to Professional Nursing Practice - 4
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.

NUR 475 - Health Assessment Across the Lifespan for RNs - 4
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.

NUR 476 - Community Health Nursing - 6
A clinical course with emphasis is on professional role development for nursing care focused on illness and injury prevention, health promotion, health maintenance, health education and coordination of care for aggregate groups in urban and rural communities. Provides students the opportunity to analyze theories, processes, issues and trends that affect the community as a whole. NUR 472 is a pre or co-requisite. *Prerequisites:* (NUR 470 and NUR 472) or NUR 474

NUR 478 - Sexuality Issues in Health and Illness: A Lifespan Approach - 3
This elective course includes the ethical, social, biological and psychological concepts of human sexuality. Open to non-nursing majors with permission of instructor.

NUR 480 - Leadership and Management in Professional Nursing Practice - 7
A clinical course focused on leadership and management methodologies, resource management, delegation, conflict resolution, legal implications for practice, managed care, quality improvement, and evaluation practices. Provides opportunities to strengthen professional nursing role behaviors in selected areas of practice. Emphasis is placed on the integration of all professional role behaviors, application of research and leadership-management of care for clients in both direct and indirect provider roles. NUR 476 is a pre or co-requisite. *Prerequisites:* (NUR 470 and NUR 472) or NUR 474

NUR 481 - Advanced Spanish for Health Prof - 3
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.

NUR 482 - Leadership and Management Practicum for Professional Nursing Practice - 3
This clinical course focuses on the application of leadership and management theories and models, including concepts of resource allocation and management, delegation, conflict resolution, legal implications and practice, managed care, evaluation of practice, continuous quality improvement, the accreditation process for health care 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 issues in selected areas of practice. NUR 482 may be taken as a co-requisite with the NUR 607 and NUR 608 requirement.

NUR 484 - Honors Seminar II: Project Development - 3
This required course for Honors Program students provides opportunities for innovative practice that examines holistic client needs and nursing roles regarding those needs. Students analyze a clinical problem or topic and design a strategy to further develop evidence-based nursing practice relative to it. Course contest includes clinical or research mentorship experiences, critical application of evidence-based sources, and discussion leading to student project design and initiation. Students complete training in protection of human participants in research and apply those protections to project design and approval processes. Good standing in Honors in Nursing Program required. *Prerequisite:* NUR 368

NUR 486 - Honors Seminar III: Project Implementation- 3
This required course for Honors Program students provides opportunities for implementation of an innovative evidence-based practice strategy which integrates human responses to health and illness and professional practice roles. Course content includes clinical or research experiences in innovative practice approaches, discussions of implications for evidence-based practice and professional nursing roles, and guidelines for preparation of manuscript and presentations. Professional expectations include dissemination of findings through a public forum and collaboration with agencies for integration of findings into practice.

NUR 490 - Independent Study in Nursing - 1 to 6
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 to 6
Independent Study in Nursing. Must be a senior year nursing student and have a written Independent Study contact signed by the Associate Dean.

NUR 492 - Honors Seminar I: Clinical Option - 2
Content focuses on the development of a clinical problem. Admission to the School of Nursing Departmental Honors Program is required and successful completion of NUR 353 Honors.

NUR 493 - Honors Seminar I: Research Option - 2
Content focuses on the development of a researchable project. Admission to the School of Nursing Departmental Honors Program. NUR 361 Honors is a pre or co-requisite.

NUR 494 - Honors Seminar II: Clinical Option - 2
Content focuses on the solution to clinical project development in NUR 492.

NUR 495 - Honors Seminar II: Research Option - 2
Content focuses on the completion of the research project developed in NUR 493. Continuation in the School of Nursing Departmental Honors Program is required.

NUR 499 - Living With Loss - 3
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.

School of Social and Behavioral Sciences

Dean: Jean Ann Linney

The School of Social and Behavioral Sciences provides coursework leading to the Bachelor of Arts degree with majors available in anthropology, economics, history, international studies, political science, and sociology. The Bachelor of Science degree is awarded to majors in criminal justice, psychology, and social work. The school also shares responsibility for programs in African American studies, American studies, digital community studies, environmental studies, gerontology, urban affairs, and women's studies, as well as coursework in geography. Unless specified otherwise in the description of a major, all majors in the School of Social and Behavioral Sciences require a minor.

The School of Social and Behavioral Sciences offers the Master of Arts degree in history and in sociology; the Master of Science degree in criminal justice and in forensic science; the Master of Public Administration degree; and the Doctor of Philosophy degree in psychology, medical sociology, and forensic science. Consult the *UAB Graduate School Catalog* for details.

CORE CURRICULUM

Requirement	Fulfilled By:	Hrs.
Area I: Written Composition	Take both of the following courses (must earn a C or better): **EH 101 EH 102**	6
Area II: Literature	Select one of the following courses: **EH 216 EH 218 EH 222 EH 224** **EH 217 EH 221 EH 223**	3
Area II: Fine Arts	Select one of the following courses: **ARH 101 ARH 204 MU 120 THR 105** **ARH 203 ARH 206 THR 100 THR 200**	3
Area II: Fine Arts/Humanities	Select two of the following courses: **AAS 200 EH 216 FR 102 MU 120 SPA 102 ARA 101 ITL 201** **ARH 101 EH 217 FR 201 PHL 100 SPA 201 ARA 102 JPA 101** **ARH 203 EH 218 FR 202 PHL 115 SPA 202 CHI 101 JPA 102** **ARH 204 EH 221 GN 101 PHL 116 THR 100 CHI 102 JPA 201** **ARH 206 EH 222 GN 102 PHL 120 THR 105 CHI 201 JPA 202** **AS 200 EH 223 GN 201 PHL 125 THR 200 CHI 202** **CM 101 EH 224 GN 202 PHL 203 FLL 120 ITL 101** **CM 105 FR 101 GN 204 SPA 101/SPA 111 FLL 220 ITL 102**	6
Area III: Mathematics	Select one of the following courses: **MA 105 MA 107 MA 110 MA 126 MA 252** **MA 106 MA 109 MA 125 MA 227 MA 260**	3
Area III: Natural Sciences	Select two of the following courses (with laboratories): **AST 101/AST 111 CH 115/CH 116** **AST 102/AST 112 CH 117/CH 118** **AST 103/AST 113 ENV 108/ENV 109** **AST 105/AST 115 ES 101/ES 102** **BY 101/BY 102 ES 103/ES 104** **BY 111/BY 112 PH 201/PH 211** **BY 123 PH 202/PH 212** **BY 124 PH 221/PH 231** **CH 105/CH 106 PH 222/PH 232** **CH 107/CH 108 PHS 101**	8
Area IV: History	Select one of the following courses: **HY 101 HY 102 HY 120 HY 121**	3

Area IV: Social & Behavioral Sciences	Select one of the following courses: **ANTH 101 HY 101 ITS 101 PSC 221 SOC 245** **ANTH 106 HY 102 ITS 205 PY 101 WS 100** **ANTH 120 HY 120 PSC 101 PY 212** **GEO 121 HY 121 PSC 102 SOC 100**	3
Area IV: Social & Behavioral Sciences (Non-History)	Select two of the following courses: **ANTH 101 EC 211 PSC 101 PY 212** **ANTH 106 GEO 121 PSC 102 SOC 100** **ANTH 120 ITS 101 PSC 221 SOC 245** **EC 210 ITS 205 PY 101 WS 100**	6
Sequence Requirement:	As part of Area II or Area IV, students must complete a two course sequence in Literature or History. Approved sequences are listed below: **EH 217 + EH 218** **HY 101 + HY 102** **EH 221 + EH 222** **HY 120 + HY 121** **EH 223 + EH 224**	-
	Total Core Curriculum Requirements:	**41**

School-wide Requirements for Graduation

In addition to fulfilling UAB's Core Curriculum, students with majors in the School of Social and Behavioral Sciences must satisfy the requirements of two of the following three tracks, for a maximum of six semester hours.

SCHOOL-WIDE REQUIREMENTS FOR SOCIAL AND BEHAVIORAL SCIENCES

Requirement	Fulfilled By:	Hrs.
School-Wide Requirements:	Students must satisfy two of the three tracks listed below. A student may NOT use the same course to satisfy this requirement and other requirements within the core curriculum; however, a course may apply toward this requirement and a requirement	6
Track A: Foreign Language and Culture	Track A may be satisfied by completing one of the following courses: **ANTH 101 FR 102 FR 311 HY 257 SPA 201** **ANTH 106 FR 106 FR 320 HY 258 SPA 202** **ANTH 120 FR 108 GN 102 HY 263 SPA 206** **ANTH 241 FR 201 GN 201 HY 265 SPA 210** **ANTH 243 FR 202 GN 202 JS 115 SPA 300** **ANTH 244 FR 210 GN 203 PY 213 SPA 304** **ANTH 248 FR 220 GN 204 PY 319 SPA 310** **ANTH 249 FR 305 GN 205 SOC 200 SPA 311** **ARH 203 FR 306 GN 206 SOC 325 SPA 312** **ARH 205 FR 307 HY 245 SPA 102 SPA 313** **ARH 206 FR 308 HY 247 SPA 108 SPA 314** **FLL 220 FR 310 HY 248 SPA 180**	-
Track B: Philosophy and Critical Reasoning	Track B may be satisfied by completing one of the following courses: **CM 103 PHL 203 PHL 232 PHL 308 PHL 343** **PHL 100 PHL 204 PHL 233 PHL 314 PHL 348** **PHL 115 PHL 205 PHL 239 PHL 315 PHL 350** **PHL 116 PHL 208 PHL 240 PHL 335 PHL 372** **PHL 125 PHL 215 PHL 270 PHL 341 PHL 375** **PHL 135 PHL 230 PHL 305 PHL 342 PSC 104**	-
Track C: Computers	Track C may be satisfied by completing one of the following courses (alternatively, students may satisfy this track by completing a computer technologies competency examination, where permissible; this option will reduce the number of hours required in the School-Wide Requirements by three): **ARS 103 CS 101 HY 125 MU 115** **BY 245 CS 201 MA 261**	-
	TOTAL SCHOOL-WIDE REQUIREMENTS HOURS:	**6**

For the most up-to-date list of courses that satisfy each track, students should consult their advisor. Courses that fulfill each track are also designated in the current UAB Class Schedule.

Other Requirements

Departments within the school have policies on the grade level of acceptable work that may be applied toward the major and minor. Consult the appropriate department section of this catalog for this information. Duplicated courses will be credited toward degree requirements only once. This applies to courses determined by departments to have essentially similar content. 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. Students may earn credit by examination for courses designated by the department concerned.

The School of Social and Behavioral Sciences does not allow credit for orientation courses. A student may present for elective credit a combined total not exceeding four semester hours for work in physical education activity courses. Courses taken principally for gaining experience, or which involve technology to a large degree (such as typing), will not be credited toward requirements for a degree in this school. Students who have questions about policies of the school regarding degree credit for work already completed should consult an academic advisor in the School of Social and Behavioral Sciences, Room 510, Heritage Hall.

Teacher Certification

UAB offers baccalaureate level (Class B) secondary (grades 6-12) teacher certification in History/Social Science. To obtain certification, students must major in their teaching field and education. Requirements for the major in the School of Social and Behavioral 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 Services Office (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 Student Services Office for more information about program admission requirements.

Interdisciplinary and Special Programs

African American Studies
Interdisciplinary Program

For a complete description of the interdisciplinary African American Studies Program, sponsored jointly by the School of Arts and Humanities, the School of Natural Sciences and Mathematics, and the School of Social and Behavioral Sciences, see page 83 of this catalog.

American Studies
Minor

For a complete description of the interdisciplinary American Studies Program, sponsored jointly by the School of Social and Behavioral Sciences and the School of Arts and Humanities, see page 85 of this catalog.

Digital Community Studies

Director: Michele Forman and Rosie O'Beirne (Center for Urban Affairs)

The Digital Community Studies minor, housed in the School of Social and Behavioral Sciences, is an interdisciplinary program for students interested in opportunities for applied research in local communities. The minor provides students a solid grounding in the theory, method, and practice of community studies as it is employed as an interdisciplinary unit of analysis across the social and behavioral sciences. The core courses are team-taught by members of the SBS faculty, offering students instruction in both applied research techniques and digital modes of documentation and dissemination of their research.

The minor in Digital Community Studies will teach students technical proficiency in new media modes of documentation that are now employed in a wide range of social and behavioral science research. In essence, the term "digital community studies" indicates the dual focus on the community as an analytic unit and the new digital technology as the methodological means to represent the community-based research. Students have opportunities for hands-on participation in local communities through service learning and internships.

Requirements

The DCS minor will require 21 semester hours, including three courses in the core curriculum (12 hours), one additional advanced digital community studies course (3 hours), and two electives (6 hours). At least 9 credit hours must be taken at the 300 level or higher. The two electives will be drawn from a number of relevant courses already existing in the curriculum of the School of Social and Behavioral Sciences involving technology, media, and/or community studies. The two electives for the minor are to be taken in different

disciplines (e.g., history and sociology, political science and anthropology, but not two anthropology electives). No grade below C will be counted as credit for the minor.

MINOR REQUIREMENTS FOR DIGITAL COMMUNITY STUDIES

Requirement	Fulfilled By:	Hrs.
Digital Community Studies Core	Take all of the following courses: **DCS 101 DCS 201 DCS 401**	12
Advanced Digital Community Studies Course	Select one of the following courses: **DCS 450 DCS 460 DCS 470**	3
SBS Approved Course	Select one of the following courses in different disciplines: **ANTH 123 ANTH 366/UA 366 ANTH 415 ASS 310 GEO 109/UA 109** **HY 227 HY 207 HY 305 HY 266 HY 428** **HY 431 MPA 673 PSC 270 PSC 370 SOC 316** **SOC 470 UA 270/SOC 275**	3
	Total Minor Requirements:	**18**

Course Descriptions
Digital Community Studies (DCS)

DCS 101 - Introduction to Community Studies - 3
This course will investigate the historical, political, and social landscape of Birmingham through the use of multimedia applications. Students will be introduced to the methods of community-based research and how technology applications are used in the social sciences.

DCS 201 - History of Documentary Film - 3
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 401 - Ethnographic Filmmaking - 6
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) introduction 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. *Prerequisites:* DCS 101 and DCS 201

DCS 450 - Advanced Digital Community Studies - 3
This course will serve as a continuation of DCS 401, offering students the opportunity to develop more in-depth projects and will receive instruction in advanced technical skills for multimedia production. *Prerequisites:* DCS 401

DCS 460 - Independent Digital Community Studies - 3
This course will provide an opportunity for advanced students to pursue individual projects in multimedia studies. *Prerequisites:* DCS 401

DCS 470 - Internship in Digital Community Studies - 3
Students will engage with community partners and organizations through service and research partnerships. *Prerequisite:* DCS 401

Economics

The School of Social and Behavioral Sciences, in cooperation with the Department of Economics in the School of Business, offers coursework leading to the Bachelor of Arts degree with a major or minor in economics. Students pursuing the Bachelor of Arts degree in the School of Social and Behavioral Sciences must satisfy the general education requirements (Core Curriculum/minor) of the School of Social and Behavioral Sciences.

MAJOR REQUIREMENTS FOR ECONOMICS

Requirement	Fulfilled By:	Hrs.
Grade and Residency Requirements	Students must have a 2.0 average in all economics courses, including **EC 210** and **EC 211**, required in Core Curriculum Area IV. Students must have an overall 2.0 in **EC 210** and **EC 211** before taking upper-level Economics courses. At least 12 hours of 300-level or higher Economics courses applied to the degree must be taken at UAB. Students also must take 12 semester hours of economics courses numbered 300 or	-

Required Mathematics	Take the following course: **MA 109** *Note: Completing MA 109 will automatically satisfy the Core Curriculum Area III: Math Requirement.*	3
Required Economics	Take all of the following courses: **EC 210 EC 211 EC 304 EC 305**	12
Economics Electives	Select six hours in **Economics (EC)** courses, at 300-level or above.	6
Statistics	Select one course from the following. MA 180 SOC 410 PSC 412 SW 321 or JS 120	3
	Select six hours from the following courses. EC 405, EC 407, PSC 355, PSC 461	6
	Select six hours from the following courses. ANTH 365, HY 234/HY 390, HY 201, HY 227 PSC 262	6
	Total Major Requirements:	**36**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	A minor is required for this degree.
General Electives	Students must take general electives to reach the 120 semester hour requirement.

MINOR REQUIREMENTS FOR ECONOMICS

Requirement	Fulfilled By:	Hrs.
Grade & Residency Requirement	A student must have at least a 2.0 GPA in all attempted Economics courses. At least nine hours of 300-level or above Economics courses must be completed at UAB.	-
Required Economics Courses	Select all of the following courses (Note that **MA 109** is a prerequisite for **EC 210**): **EC 210 EC 211 EC 304 EC 305** *Note: **EC 210** and **EC 211** may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.*	12
Economics Electives	Select six hours from **Economics (EC)** courses numbered 300 or above.	6
	Total Minor Requirements:	**18**

Students majoring or minoring in economics will pursue the economic analysis and policy track of the B.S. degree program within the School of Business. Note that the quantitative-methods track is not open to economics majors within the School of Social and Behavioral Sciences.

Course Descriptions
Economics (EC) Lower Level

EC 110 - Economics and Society - 3
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 School of Social and Behavioral Sciences.

EC 210 - Principles of Microeconomics - 3
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
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).

Upper Level

EC 301 - Money and Banking - 3
Money supply, banking system, and other financial institutions; how money affects aggregate economic activity.

EC 303 - Labor Economics - 3
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.

EC 304 - Microeconomics - 3
Advanced economic principles underlying value and distribution with additional training in application of these principles to problems of analysis.

EC 305 - Macroeconomics - 3
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.

EC 310 - Managerial Economics - 3
Economic theory and its application to managerial decision making process. Demand analysis, estimation, cost analysis, market analysis, pricing strategy. *Prerequisites:* EC 210 and EC 211 and QM 214

EC 401 - Mathematical Approach in Economics and Business - 3
Mathematical approach in economics and business. *Prerequisite:* EC 304

EC 403 - Monetary Economics - 3
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 301 and EC 304 and EC 305

EC 404 - Topics in Public Policy - 3
Topics in Public Policy. *Prerequisite:* EC 304

EC 405 - Econ Development and Growth - 3
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. *Prerequisite:* EC 304

EC 407 - International Economics - 3
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)

EC 408 - Topics Hist of Econ Theory - 3
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 210 and EC 211

EC 409 - Survey of Econometrics - 3
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 and EC 305

EC 411 - Public Finance - 3
Principles of taxation, government expenditures, borrowing, and fiscal administration. *Prerequisite:* EC 304

EC 413 - Urban Economics - 3
Economic issues and structure of metropolitan areas. Economic growth and decay of urban regions. Specific topics: housing, education, employment, political economy, and public safety. (Also UA 413)

EC 420 - Applied Forecasting - 3
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. (Also QM 420)

EC 425 - Applied Regression Analysis - 3
Simple, multilinear, and polynomial regression analysis. Model selection, inferential procedures, and application with computer. (Also QM 425)

EC 440 - Economics for Educators - 3
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 490 - Advanced Topics in Economics - 3
Selected topics in economics.

EC 499 - Directed Readings in Economics - 1 to 3
Investigation of specific areas in economics. Requires permission of the department chair or designated representative prior to registration.

Environmental Studies

Interim Director: Loretta Cormier (Anthropology)
Faculty: Becker (Environmental Health Sciences), Collins (English), Elias (English), Hwang (Sociology), Kyle (Anthropology), LaGory (Sociology), Lalor (Civil Engineering), Macrina (Health Education), Marion (Biology), McCarl (Economics), Mohl (History), Neilson (Geology), Petri (Human Studies), Pitt (Civil Engineering), Wheatley (Anthropology)

The environmental studies minor, housed in the Department of Anthropology in the School of Social and Behavioral Sciences, is an interdisciplinary program for students seeking a broad learning experience in environmental issues. The minor brings students together with faculty and subjects from a range of disciplines and exposes them to issues at the individual, local, state, national, and international levels. The program helps students become better informed citizens and introduces them to environmentally related professional opportunities. Since UAB has an explicit urban mission, students are encouraged to learn about eco-cultural conditions in cities, where 83 percent of U.S. citizens live. Water and air pollution, hazardous waste sites, and shrinking green space and recreational areas are just a few of the environmental problems often associated with the urban setting. Such problems tend especially to affect minority groups and the poor living in inner-city neighborhoods.

MINOR REQUIREMENTS FOR ENVIRONMENTAL STUDIES

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A C or better is required in all courses applied to the minor.	-
Environmental Studies Foundation Courses	Select four of the following courses: **ANTH 268** **ENV 108** **BY 370** **HY 439** **ENH 602** **HY 483**	12
Environmental Studies Electives	Select nine hours from the following courses: **ANTH 106** **CE 441** **ES 109** **HY 435** **SOC 280** **BY 407** **EC 308** **HE 141** **HY 482** **SOC 470** **CE 236** **ENG 214** **HE 223** **ITS 205** **UA 404** **CE 431** **ENG 392** **HY 125** **PSC 490** **UA 492** **CE 433** **ES 101** **HY 428** **SOC 200** **UA 493** *Note: **ANTH 106** and **ITS 205** may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.*	9
	Total Minor Requirements:	**21**

Gerontology

Director: Patricia L. Sawyer
Committee on Undergraduate and Graduate Education in Gerontology Director: Sawyer (Center for Aging)
Associate Directors: Drentea (Sociology), Shewchuk (Health Professions)
Members: Allman (Center for Aging), Ball (Psychology), Curtis (Division of Gerontology, Geriatrics, and Palliative Care), Fordham (Nursing), Galvin (Public Health), Ghanta (Biology), Peel (Faculty Development and Faculty Affairs), Wadley (Psychology)
Advisory: Linney (School of Social and Behavioral Sciences)

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 and parallel certificate. 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 School of Social and Behavioral 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 School of Social and Behavioral 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

Requirement	Fulfilled By:	Hrs.
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.	-
Required Gerontology Courses	Take all of the following courses: **GER 280 GER 425 GER 469**	9
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
Anthropology Electives	Select six hours from **Gerontology (GER)** courses.	6
	Total Minor Requirements:	**18**

Course Descriptions
Gerontology (GER)

GER 280 - Biology of Aging - 3
Current understanding of aging, measurement of aging changes, theories of aging, and aging changes in various human systems. *Prerequisite:* BY 123

GER 285 - Introduction to Aging - 3
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 Res. for Spec Pop - 3
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
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

GER 397 - Adv Dir Reading: Bio of Aging - 1 to 3
Reading and independent study in selected areas under supervision of faculty sponsor. Gerontology topic required.

GER 398 - Research Prac in Psychology - 1 to 3
Independent project, study, or reading supervised by member of faculty.

GER 403 - Politics of Aging - 3
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
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 420 - Anthropology of Old Age - 3
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
Age changes in human cognition and behavior. Sensory processes, memory, intelligence, physiology and health, psychopathology, and life-span development and adjustment.

GER 438 - Gero/Geriatrics Multi-Core - 3

GER 455 - Minority Aging - 3
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. *Prerequisite:* SOC 100

GER 456 - Death and Dying - 3
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). *Prerequisite:* SOC 100

GER 457 - The Aging Family - 3
Exploration of changes in family structure; status of aging in family in various societies; intra-and inter-generational relations; family-related role transitions. *Prerequisite:* SOC 100

GER 459 - Aging: Policy and Programs - 3
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
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
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 485 - Age Stratification - 3
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
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. *Prerequisite:* SOC 100

GER 490 - Independent Study: Sociology - 1 to 3
Individually designed programs for students wishing to conduct semi-independent research or guided reading in gerontology.

GER 491 - Independent Study: Sociology - 1 to 3
Individually designed programs for students wishing to conduct semi-independent research or guided reading in gerontology.

GER 498 - Independent Study I - 1 to 3
Community service projects under direction of faculty.

GER 499 - Independent Study II - 1 to 3
Community service projects under direction of faculty.

International Studies

Director: Nikolaos Zahariadis
Faculty: Social and Behavioral Sciences—Taylor (Anthropology); Zahariadis, Scharlach, (Government); Liber, McWilliams, Murray, Tent, Van Sant (History); Cockerham (Sociology); Arts and Humanities— Brouwer, McIver (Art and Art History); Kim (English); Danielou, Long (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, or health agencies; and cultural organizations. The minor complements any major area by providing students with an international focus in their field.

The program is jointly administered by the School of Arts and Humanities and the School of Social and Behavioral 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 will 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

Requirement	Fulfilled By:	Hrs.
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 a Model United Nations simulation or its equivalent; or participation in an internship with an international organization or company.	-
Required International Studies	Take all of the following courses: **PSC 103** **FLL 120** *Note: Completing **ITS 101** will automatically satisfy three hours of Core Curriculum Area IV.*	6
Seminar Requirement	Select one of the following courses: **ITS 470 or** **ITS 471**	3
Economic Awareness	Select one of the following courses: **ANTH 318 ANTH 365 ANTH 369 EC 405 EC 407 PSC 355 PSC 461**	3
Socio-Political Concentration	Select three of the following courses. Must be from at least two different departments. ANTH 205 ANTH 225 ANTH 231 ANTH 241 ANTH 242 ANTH 243 ANTH 244 ANTH 245 ANTH 247 ANTH248 ANTH 268 ANTH 290 ANTH 330 ANTH 356 ANTH 360 ANTH 361 ANTH 364 ANTH 369 ANTH 417 ANTH 475 HY 234 HY 245 HY 247 HY 248 HY 251 HY 252 HY 257 HY 258 HY 260 HY 261 HY 262 HY 263 HY 264 HY 265 HY 272 HY 283 HY 284 HY 341 HY 342 HY 353 HY 355 HY 365 HY 370 HY 371 HY 374 HY 375 HY 376 HY 419 HY 421 HY 433 HY 446 HY 447 HY 455 HY 456 HY 457 HY 458 HY 460 HY 461 HY 462 HY 463 HY 464 HY 466 HY 467 HY 468 HY 469 HY 470 HY 471 HY 474 HY 475 HY 476 HY 477 JS 115 PSC 102 PSC 250/350 PSC 251/351 PSC 252/352 PSC 253/353 PSC 254/354 PSC 260 PSC 261 PSC 262 PSC 360 PSC 361 PSC 362 PSC 363 PSC 466 PSC 465 SOC 200 SOC 278 SOC 325 SOC 335 SOC 370 SOC 480	9
Cultural Literacy	Select three of the following courses. Must be from at least two different departments. ANTH 100 ANTH 101 ANTH 104 ANTH 107 ANTH 121 ANTH 204 ANTH 305 ANTH 319 ANTH 320 ANTH 357 ANTH 405 ANTH 450 ARH 101 ARH 203 ARH 204 ARH 206 EH 217 EH 218 EH 242 EH 422/522 EH 423/523 FLL 220 HY 266 HY 271 HY 357 HY 434 HY 454 HY 459 HY 465 MU 366 MU 367 MU 371 MU 372 PHL 232 PHL 233 PHL 239 PSC 341 PSC 342 PY 319	9
Electives	Students must take 6 semester hours from any of the above approved list of courses AND/OR from the list below. ANTH 123 ANTH 207 ANTH 304 ANTH 366 EH 421 FLL 303 FLL 304 FLL 485	6
	Total Major Requirements:	**36**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	A minor is required for this degree.
General Electives	Students must take general electives to reach the 120 semester hour requirement.

MINOR REQUIREMENTS FOR INTERNATIONAL STUDIES

Requirement	Fulfilled By:	Hrs.
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.	-
Required Course	Take the following courses: **PSC 103 FLL 120 ITS 470 or ITS 471** *Note: **ITS 101** may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.*	9
International Studies Electives	Select 9 hours from the following list. At least 6 hours must be taken at the 300- level or above. ANTH 318 ANTH 365 ANTH 369 EC 405 EC 407 PSC 355 PSC 461 ANTH 205 ANTH 225 ANTH 231 ANTH 241 ANTH 242 ANTH 243 ANTH 244 ANTH 245 ANTH 247 ANTH248 ANTH 268 ANTH 290 ANTH 330 ANTH 356 ANTH 360 ANTH 361 ANTH 364 ANTH 369 ANTH 417 ANTH 475 HY 234 HY 245 HY 247 HY 248 HY 251 HY 252 HY 257 HY 258 HY 260 HY 261 HY 262 HY 263 HY 264 HY 265 HY 272 HY 283 HY 284 HY 341 HY 342 HY 353 HY 355 HY 365 HY 370 HY 371 HY 374 HY 375 HY 376 HY 419 HY 421 HY 433 HY 446 HY 447 HY 455 HY 456 HY 457 HY 458 HY 460 HY 461 HY 462 HY 463 HY 464 HY 466 HY 467 HY 468 HY 469 HY 470 HY 471 HY 474 HY 475 HY 476 HY 477 JS 115 PSC 102 PSC 250/350 PSC 251/351 PSC 252/352 PSC 253/353 PSC 254/354 PSC 260 PSC 261 PSC 262 PSC 360 PSC 361 PSC 362 PSC 363 PSC 466 PSC 465 SOC 200 SOC 278 SOC 325 SOC 335 SOC 370 SOC 480 ANTH 100 ANTH 101 ANTH 104 ANTH 107 ANTH 121 ANTH 204 ANTH 305 ANTH 320 ANTH 357 ANTH 405 ANTH 450 ARH 101 ARH 203 ARH 204 ARH 206 EH 217 EH 218 EH 242 EH 422/522 EH 423/523 FLL 220 HY 266 HY 271 HY 357 HY 434 HY 454 HY 459 HY 465 MU 366 MU 367 MU 371 MU 372 PHL 232 PHL 233 PHL 239 PSC 341 PSC 342 PY 319 ANTH 123 ANTH 207 ANTH 304 ANTH 366 EH 421 FLL 303 FLL 304 FLL 485	9
	Total Minor Requirements:	**18**

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 ITS (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, 416 Heritage Hall, Birmingham, AL 35294-1152; Telephone (205) 934-9680.

Course Descriptions
International Studies (ITS)

ITS 110 - Directed Reading in Intl Study - 1 to 3
Critique of current popular works in International Studies. *Prerequisite:* permission of ITS director.

ITS 223 - International Study Abroad - 3
Independent study done in International setting in conjunction with non-UAB academic program. *Prerequisite:* permission of ITS director.

ITS 229 - International Study Abroad - 3
Current events in international setting. Part of UAB Study Abroad Program. *Prerequisite:* permission of ITS director.

ITS 250 - Special Topics - 3
Topics in world geography and international issues. Prerequisite: permission of ITS director.

ITS 299 - Problems International Studies - 3

ITS 470 - International Studies Sem - 3
International Studies exit seminar that draws together program themes and summarizes main threads of current global issues. *Prerequisite:* permission of ITS director.

ITS 471 - International Studies Sem - 3
International Studies seminar that draws together program themes and summarizes main threads of current global issues. *Prerequisite:* permission of ITS director.

ITS 480 - Adv Prob International Studies - 3
Independent study. *Prerequisite:* permission of ITS director.

ITS 482 - Intl Affairs Intern - 3
Individually arranged assignments in international companies or organizations, monitored and evaluated by the director of international studies. *Prerequisite:* permission of ITS director.

ITS 499 - Adv Sem International Studies - 3
Special-topic seminar treating major current event or international problem.

Women's Studies

Director: Michele Wilson (Sociology)
Faculty: Austin (Sociology), Baker (English), Cormier (Anthropology), Doss (History), Elias (English), Foreman (Social and Behavioral Sciences), Frost (English), Goldman (Special Education), Gunther-Canada (Government), Jones (Anthropology), Keita (Nutrition), J. King (Center for Labor Education and Research),P. King (History), Martin-Ogunsola (Foreign Languages), Murray (History), Sloan (Justice Sciences), Taylor (Human Studies), Trigg (Sociology), Whatley-Smith (English)

Women's studies investigates the subject of women within specific disciplines and across disciplinary boundaries. Courses explore women's history, culture, work, and family life, and the structure of society and its impact on men and women. Women's studies examines the issue of gender difference, analyzing its psychological, social, and cultural manifestations.

Because coursework in women's studies provides insight into the human condition, it serves the traditional liberal arts objective of broadening and enriching one's understanding of the world. Students pursuing careers that will require them to deal with women's issues in the fields of government, social service, and health will also benefit from coursework in women's studies.

MINOR REQUIREMENTS FOR WOMEN'S STUDIES

Requirement	Fulfilled By:	Hrs.
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.	-
Required Women's Studies Courses	Take both of the following courses: **WS 100 WS 400** *Note: **WS 100** may also be eligible to count toward Core Curriculum Area IV; check*	6

Women's Studies Electives	Select twelve hours from **Women's Studies (WS)** courses or the courses listed below (EH 492, JS 443, SOC 290 and SOC 291 must be approved): or seek approval for oth- **EH 214 ANTH 357 HY 423 SOC 220 SOC 490** **EH 444 HY 303 JS 443 SOC 240** **EH 487 HY 329 PSC 342 SOC 290** **EH 492 HY 342 PY 420 SOC 291**	12
	Total Minor Requirements:	**18**

The following is not a comprehensive list of courses; other courses can be considered for credit in the Women's Studies Program. For full descriptions of courses other than Women's 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.

Course Descriptions
Women's Studies (WS)

WS 100 - Intro to Women's Studies - 3
Interdisciplinary study of role of women in society through social, political, economic, philosophical, historical, and biological perspectives. Required for women's studies minor.

WS 280 - Spec Topics in Women's Studies - 1 to 3
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.

WS 400 - Theory/Practice Women's Stdy - 3
Everyday applications of theory studied in various women's studies courses. Required for women's studies minor. *Prerequisite:* WS 100

WS 480 - Spec Topics in Women's Studies - 1 to 3
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.

WS 490 - Dir Readings Women's Studies - 1 to 3
Independent study with faculty guidance of selected gender-related issues.

WS 491 - Dir Studies Women's Studies - 1 to 3
Independent research with faculty guidance on selected gender-related issues.

WS 495 - Internship in Women's Studies - 1 to 3
Experience in community agency working with women or gender issues. Course requirements dependent upon number of credits student wishes to take.

Department of Anthropology and Social Work

Chair: Christopher Taylor
Faculty: Akins, Baker, Cheng, Cormier, Jones, Kyle, McElderry, Mumford, Parcak, Smith, Walker, Wheatley,
Adjunct Faculty: Hitchcock, Struzick, Williams

The fields of anthropology and social work are linked by their parallel commitment to a methodology that demands long-term personal relationships between scholarly investigators and professional practitioners on one hand and informants and clients in varied social and cultural environments on the other.

Anthropology
Program Director: Chris Kyle

The anthropology program emphasizes the holistic view of humankind through the four major branches of the field: socio-cultural anthropology, archaeology, physical anthropology, and 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.

The archaeology and physical anthropology laboratory contains an extensive collection of Southeastern cultural materials and skeletal remains from various taxa for use in teaching and research. The department also has a remote sensing laboratory where students learn to analyze cultural behavior from satellite imagery. Occasional field schools offer opportunities to gain practical experience in ethnography. The faculty's field

experience provides familiarity with many ethnographic areas of the world, including Amazonia, Latin America, North America, Europe, Middle East, Africa, Indonesia, and Oceania. The faculty's topical interests include: ecological, economic, political, medical, symbolic, linguistic, and forensic anthropology

MAJOR REQUIREMENTS FOR ANTHROPOLOGY

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A grade of C or better is required in all anthropology courses.	-
Required Anthropology courses	Take all of the following courses: **ANTH 101 ANTH 102 ANTH 106 ANTH 120 ANTH 450** *Note: Completing **ANTH 101**, **ANTH 106** and **ANTH 120** will automatically satisfy Track A of the School-Wide Requirements as well as six hours of Core Curriculum Area IV.*	15
Advanced Anthropology	Select one of the following courses: **ANTH 451 ANTH 452 ANTH 453**	3
Anthropology Electives	Select 18 hours in **Anthropology (ANTH)** courses not listed above, including 3 hours at the 400 level and 6 hours at the 300-level or above.	18
	Total Major Requirements:	**36**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	A minor is required for this degree.
General Electives	Students must take general electives to reach the 120 semester hour requirement.

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	Fulfilled by	Sem. Hrs.
Anthropology Courses	**ANTH 101 ANTH 102 ANTH 106 ANTH 120** **ANTH 458**	**15**
Anthropology Elective	Select one of the following: **ANTH 451 ANTH 452 ANTH 453**	**3**
Senior Year Thesis	ANTH 498	
Additional Courses	Four additional courses from any of the department offerings	**12**
Option Selection	**Option 1:** Statistics and Computer Science: **SOC 410 and CS 201**	**8**
	Option 2: Statistics course (**SOC 410** or equivalent) Two courses in a foreign language (or demonstrated proficiency at the 102 level)	**12**
	Option 3: Three courses in a foreign language, including one 200 level or above (or demonstrated proficiency at the 200 level)	**11**

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 anthropology program director, Department of Anthropology and Social Work, 322 Heritage Hall, Birmingham, AL 35294-3350; Telephone (205) 934-3508.

Graduate Program

The department participates in a cooperative M.A. program in anthropology with the University of Alabama. For information, contact the department chair or program director.

MINOR REQUIREMENTS FOR ANTHROPOLOGY

Requirement	Fulfilled By:	Hrs.
Grade & Residency	A C or better is required in all courses applied to the minor. At least half of the minor	-
Introductory Anthropology courses	Select three of the following courses: **ANTH 101 ANTH 102 ANTH 106 ANTH 120** *Note: **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.*	9
Advanced Anthropology courses	Select one of the following courses: **ANTH 450, ANTH 451, ANTH 452, ANTH 453**	3
Anthropology Electives	Select six hours from **Anthropology (ANTH)** courses.	6
	Total Minor Requirements:	**18**

Course Descriptions
Anthropology (ANTH)

ANTH 101 - Intro to Cultural Anthropology - 3
Cultures of world's peoples; ideas used to explain similarities and differences among human groups.

ANTH 102 - Introductory Physical Anth - 3
Biological evolution; interpretation of human fossil record; race; human population genetics and primate behavior.

ANTH 103 - Intro Digital Social Science - 3
Capabilities of digital applications, including digital image editing, digital video editing, multimedia presentations, web design and streaming video, and digital video compression.

ANTH 104 - Introduction to Folklore - 3
Central issues in folklore: traditional, expressive, and material culture. Verbal genres, customs, and material forms of folklore from several regional and ethnic cultural groups in the U.S. and worldwide. Tradition and presence of the past in everyday life, creativity and artistic expression and personal and group identities.

ANTH 106 - Introductory Archaeology - 3
Archaeological methods and theory used to reconstruct and interpret past.

ANTH 107 - World Prehistory - 3
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
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 Thru Film - 3
Special topics in cultural anthropology addressed through use of ethnographic films. Culture areas, culture change, and traditional societies in modern world.

ANTH 203 - South American Indians - 3
Ethnology of indigenous peoples of South America including ecological adaptation, social organization, religious systems, and culture change. Emphasis on lowland South American (Amazonian) Indians.

ANTH 204 - Food in Antiquity - 3
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 206 - Family in Cross-Cultural Persp - 3
Relationships within and among cultural units commonly referred to as "the family"; survey of domestic groups in various socio-cultural settings.

ANTH 207 - Intro to Egyptian Archaeology - 3
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
Behavior and social organization of humans' closest living relatives. Living primates and why they behave as they do.

ANTH 211 - Human Evolution - 3
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
Prehistoric America north of Mexico from terminal Pleistocene to early historic times. *Prerequisite:* ANTH 101

ANTH 225 - Mesoamerican Archaeology - 3
Archaeology of Mexico and Guatemala; early man; development of agriculture; pre-classic cultures; classic and post-classic cultures, including Mayan, Teotihuacan, Toltec, and Aztec civilizations.

ANTH 226 - Archaeological Field School - 1 to 6
Participation in all phases of excavation, laboratory study, and report preparation. Off campus.

ANTH 228 - Mesoamerica - 3
This course introduces key developments in prehistoric Mesoamerican cultural change, 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 process such as sedentism, the origins of agriculture and writing, the emergence of social complexity, and urbanism.

ANTH 230 - Old World Archaeology - 3
Prehistory of Africa, Asia, and Europe from Paleolithic to Early Bronze Age. Hunter-gatherer adaptations, emergence of village-based agriculture, and appearance of cities.

ANTH 231 - Arch: Orig of Civiliziation - 3
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 233 - Archaeology of Europe - 3
Cultural sequence in Europe from early occupations until written records. Upper Palaeolithic art, Stonehenge, and origins of village life.

ANTH 235 - Immig Transnationalsm/Diaspora - 3
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 U.S. - 3
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/World: S Amer Indians - 3
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
Local and regional African cultures. Geographical, racial, and historical backgrounds; contemporary African social systems.

ANTH 245 - Peoples/World: Middle East - 3
Traditional cultures of Middle East. Ecological setting, historical evolution, and political economy of main life ways of Near Eastern Society.

ANTH 247 - Peoples of the World: Oceania - 3
Varied influences upon peopling and cultural development of islands in Pacific. Major areas (Polynesia, Melanesia, Micronesia)

ANTH 247 - Peoples of the World: Oceania - 3
Varied influences upon peopling and cultural development of islands in Pacific. Major areas (Polynesia, Melanesia, Micronesia) followed by focus on one culture found therein.

ANTH 248 - Peoples/World: Latin America - 3
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 251 - Islam in N Africa: Hist/Cult - 3
This anthropology course is an introduction to the geographical and historical factors making up for the social unity and diversity of three countries of the Maghreb (Morocco, Algeria, and Tunisia). Topics covered are: The Arab conquest and Islamization of North Africa; Ibn Khaldoun and the tribal Kinship systems of North Africa; the French colonization of North Africa; the Wars of independence; the postcolonial politics of Arabization and the Amazigh question; the current etonography of the Maghreb; women s emanicipation; male and female rituals and honor codes; the secular and religious movements of the contemporary Maghreb; popular and formal Islam, etc.

ANTH 290 - Study Abroad: Mexico - 3
Orientation to and popular culture in Chilapa; Mexican history and ethnology, regional history and ethnology, and local economy and human ecology.

ANTH 299 - Contemporary Global Issues - 3
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.

Advanced Undergraduate

Prerequisite: 6 semester hours in anthropology and/or sociology, permission of instructor, or as noted.

ANTH 303 - The Conquest of Mexico - 3
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 and the broader intellectual and material consequences of the conquest.

ANTH 304 - Looking at Earth - 3
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 305 - World Prehistory - 3
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 307 - Environmental Archaeology - 3
Study of human interaction with the environment in the past through archaeology and related disciplines. *Prerequisite:* ANTH 106

ANTH 308 - Women in N Africa: Lit/Film - 3
This course examines the intricate relations between incest, endogamy, and women's rights to inheritance in the literatures, films, and national epics of Muslim North Africa.

ANTH 318 - Anthropology of Development - 3
Effects of Western penetration of indigenous societies and role of anthropologists in development projects in Third World.

ANTH 319 - Food and Culture - 3
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
Human behavior in relation to the supernatural; religion as a system of social behavior and values; theories of religion.

ANTH 324 - Law of Historical/Cultural Res - 2
Federal and state laws and regulations relevant to archaeology and anthropology. National Historic Preservation Act, Native American Graves Protection and Repatriation Act, National Register listings, preservation easements, and federal income tax rehabilitation credits.

ANTH 328 - Mesoamerica - 3
This course introduces key developments in prehistoric Mesoamerican cultural change, 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 and writing, the emergence of social complexity, and urbanism.

ANTH 330 - Nationalsm Ethn and Violence - 3
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 - Arch and Hist Bible Lands - 3
Archaeology and History of the Bible Lands. Examination of region spanning modern Syria, Lebanon, Israel, and Jordan from 10,000-585 B.C.

ANTH 351 - Anthropology of Human Rights - 3
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 contemporary settings.

ANTH 353 - Primatology - 3
Biology, behavior, and distribution of living nonhuman primates. Field studies of old-world monkeys and apes.

ANTH 355 - Archaeology of Alabama - 3

ANTH 357 - Anthropology of Gender - 3
Cultural construction of gender differences in human societies; shifting definitions of proper male and female roles across cultures and through time.

ANTH 360 - Ecological Anthropology - 3
Interactions among behavioral, technological, organizations, and ideological features of human cultures that serve to adapt societies to their physical environment. Prerequisite: 3 hours in ANTH.

ANTH 361 - Kinship/Social Organization - 3
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 364 - Political Anthropology - 3
Comparative analysis of political structures and process throughout world, focusing on non-Western forms; anthropological attempts to understand complex interplay of culture and power in human societies.

ANTH 365 - Economic Anthropology - 3
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
Human life in cities from cross-cultural perspective; process of urbanization in ancient civilizations, colonial empires, and modern-day Third World.

ANTH 367 - Anthropology of Music - 3
Holistic approach of ethnomusicologists to study of music. Role of musicians in society; their training and instruments. Methods for documenting and transcribing, social functions and economic context, and theories of performance and creativity. Ghanaian and Indian musical traditions studied with other music, including Western, included as appropriate.

ANTH 369 - Ethnography of Mexico - 3
Survey of the incorporation of rural Mexican communities into the country's developing industrial economy.

ANTH 370 - Music in World Cultures - 3
Characteristics of musical styles in various cultures throughout world. *Prerequisite:* MU 120

ANTH 371 - Special Topics in Anthropology - 3
Special Topics in Anthropology.

ANTH 375 - Foundations of Symbolism - 3
Study of symbolic forms in myth and ritual and overview of theoretical approaches.

ANTH 380 - Anth and the Health Prof - 3
Anthropological theory and practice relevant to health care professions in medicine, nursing, public health, psychology, etc. Anthropological perspectives on practice of health care and practical applications of anthropology in providing health care to culturally diverse people. *Prerequisite:* ANTH 101

ANTH 384 - Ancient Civilizations - 3
Comparative survey of New Kingdom Egypt and Aztec Mexico.

Undergraduate and Graduate

Prerequisite: 9 semester hours in anthropology and/or sociology or permission of instructor, unless otherwise noted.

ANTH 400 - Human Osteology - 3
The identification of human skeletal remains. This laboratory/lecture course provides the groundwork for much of the work in physical anthropology.

ANTH 401 - Forensic Anthropology - 4
Applied human osteology, emphasizing ability to identify age, sex, and population type of skeletal material. Effects of disease and behavior on bones.

ANTH 403 - Visual Language - 3
Varied theoretical approaches, including film theory, media theory, literary criticism, and linguistic analysis, to compare language of visual imagery with other communicative modes. How meaning is conveyed through film style, nested and/or contradictory visual messages, narrative structure, and technical choices used to convey mood in classic documentaries. Ethics of representation, filmmaker/subject relations, and role of film as cultural object.

ANTH 405 - As Others See Us - 3
Joint American Studies/International Studies seminar surveying international perceptions of U.S. culture.

ANTH 406 - Arch of the Pacific Islands - 3
Holistic preview of Pacific Island societies in the past. I will draw from archaeological literature and to a lesser degree ethnographic, linguistic, and biological data. Issues of historic contact, historic archaeology, prehistory, and cultural development in the regions of Polynesia, Melanesia, and Micronesia will be addressed with attention to problems and contributions to anthropology.

ANTH 411 - Advanced Field Archaeology - 1 to 6
Archaeological field and laboratory techniques, including excavation, surveying, and artifact analysis and description; general problems of archaeological interpretation; prehistoric data from southeastern U.S. *Prerequisites:* ANTH 101

ANTH 412 - Computers and Stats in Anth - 3
Computer and statistical applications in anthropology; use of SAS data management and statistical and graphics software.

ANTH 414 - Geoarchaeology - 3 to 6
Survey of geological methods as applied to archaeological questions. Practicum in geoarchaeological laboratory and analytic methods using samples from archaeological sites in Alabama and the Middle East. *Prerequisites:* ANTH 101 or ANTH 106

ANTH 415 - Ethnographic Research Methods - 6
Ethnographic Field Methods classroom instruction and practical experience in techniques of ethnographic fieldwork, including participant observation, household surveys, structured and unstructured interviewing, and genealogies. Study abroad program in Chilapa, Guerrero, Mexico.

ANTH 417 - Origins of Agriculture - 3
Theories about the origins of agriculture, examination of the archeological record concerning different pathways leading to the domestication of plants and animals.

ANTH 422 - Landscape Archaeology - 3
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 - Animal Bone Archaeology - 3 to 6
Methods and theories of zoo archaeological research. Practical experience in processing, identification, and interpretation of animal bone remains from archaeological sites. *Prerequisite:* ANTH 106

ANTH 434 - Observing the Earth from Space - 3
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 - Ethnomed and Ethnopsychiatry - 3
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 to 6
Application of anthropological approaches to efforts in public or private sector.

ANTH 437 - Real World Remote Sensing App. - 3
This course will be offered as a research seminar focusing on real world applications of remote sensing technology. The course will take place in UAB's Laboratory for Global Health Observation. 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 "solutions networks" papers to NASA.

ANTH 451 - Adv Archaeological Anth - 3
Principal theoretical approaches of 20th century archaeology: historical, processual, and post-processual.

ANTH 452 - Adv Linguistic Anthropology - 3
Historical development of theory and field practice of linguistics; acquisition, sociolinguistics, nonverbal communication, semiotics, and ethnosemantics; applied linguistics.

ANTH 453 - Advanced Physical Anthropology - 3
Human evolution and primatology; race; human genetics. Tasks performed by physical anthropologists.

ANTH 483 - Intern in Environmental Study - 1 to 3
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.

ANTH 489 - Spec Problems Multimedia Anth - 1 to 6
Supervised study of multimedia applications to anthropological topics. Topics determined by student and instructor interest.

ANTH 490 - Spec Problems in Cultural Anth - 3
Supervised study of specified topic area; defined problem explored in depth; topics determined by student and instructor interest.

ANTH 489 - Spec Problems Multimedia Anth - 1 to 6
Supervised study of multimedia applications to anthropological topics. Topics determined by student and instructor interest.

ANTH 490 - Spec Problems in Cultural Anth - 3
Supervised study of specified topic area; defined problem explored in depth; topics determined by student and instructor interest.

ANTH 493 - Spec Problems in Archaeology - 3
Supervised in-depth study of specified topic area in archaeology. Topics determined by student and instructor interest.

ANTH 494 - Spec Problems in Linguistics - 3
Supervised in-depth study of specified topic area in linguistics. Topics determined by student and instructor interest.

ANTH 495 - Spec Problems in Linguistics - 3
Supervised in-depth study of specified topic area in linguistics. Topics determined by student and instructor interest.

ANTH 496 - Spec Problems in Physical Anth - 3
Supervised, in-depth study of specified topic area in physical anthropology. Topic determined by student and instructor interest.

ANTH 497 - Spec Problems in Physical Anth - 3
Supervised, in-depth study of specified topic area in physical anthropology. Topic determined by student and instructor interest.

ANTH 498 - Honors Thesis Research - 3 to 6
Independent development of research project.

ANTH 499 - Dir Read: Prob. and Stats - 1
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).

Social Work

Program Director: Tyrone Cheng

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 CS 101, HY 121, EC 110 or 211, PY 101, PSC 101 or 221, SOC 100, ANTH 101 and an approved minority studies course. 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 101/102 or BY 123), also completed with a grade of C or better. This requirement may be taken as part of the Core Curriculum.

Major in Social Work

Because the B.S.S.W. is a professional degree, students must successfully complete the prescribed application process to advance from Core/Foundation Curriculum to Professional Curriculum. In order to complete the Professional Curriculum and attain the B.S.S.W. degree, students must continually meet standards representing professional competence.

1. Students admitted to the Professional Curriculum in social work must earn a C or better in required upper-level classes.
2. Transfer students must complete SW 222, 322, and 422 and the practicum at UAB.
3. The minimum grade point average for students beginning fieldwork and for the B.S.S.W. degree is 2.5 overall UAB GPA.
4. Students must complete the following required social work courses: SW 100, 200, 203, 222, 302, 313, 314, 320, 321, 322, 422, 490 and 494. Students who have not completed a statistics course prior to formal acceptance to the Professional Curriculum must complete SW 321.
5. A 3-hour elective in social work is also required.

Social Work Classification

Students declaring their intention to major in social work are admitted with a social work (SW) classification. Application to SW Professional Curriculum —SW students may formally apply to the Professional Curriculum when they have met all of the following criteria:

1. Completion of essential Core and Foundation Curriculum requirements, with a grade of C or better in each course.
2. Cumulative undergraduate GPA of 2.0 or higher.
3. Completion of SW 100, SW 200, SW 203, and SW 222 with a cumulative average of 2.5 or better.

Acceptance to the Social Work Professional Curriculum

Students must successfully complete a formal application process to enter Professional Curriculum. The application process includes the following: (1) certification from a School of Social and Behavioral Sciences academic advisor that the criteria to apply have been met, (2) a written assessment of writing skills and self-awareness; and (3) a recommendation by the social work faculty.

MAJOR REQUIREMENTS FOR SOCIAL WORK

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A grade of C or better is required in all courses applied to the Social Work major.	-
Minority Studies	Select one of the following courses. SW 207 SOC 220 SOC 250 WS 100 OR SOC 490 (X) 3	3
Anthropology	Take the following course: **ANTH 101** *Note: This course may satisfy this requirement as well as the Core Curriculum Area IV: Social & Behavioral Sciences requirement.*	3
Biology	Take the following courses. **BY 101 BY 102**	4
Computer Science	Select one of the following courses: **CS 101** *Note: **CS 101** will satisfy this requirement as well as the Track C of the School-Wide Requirements.*	3
Economics	Select one of the following courses: **EC 110 EC 211** *Note: **EC 211** will satisfy this requirement as well as the Core Curriculum Area IV: Social & Behavioral Sciences requirement.*	3

History	Take the following course: **HY 121** *Note: **HY 121** will satisfy this requirement and can also be applied to the Core Curriculum Area IV: History requirement.*	3
Political Science	Select one of the following courses: **PSC 101** **PSC 221** *Note: Either of these courses will automatically satisfy the Core Curriculum Area IV: Social & Behavioral Sciences requirement.*	3
Psychology	Take the following course: **PY 101** *Note: One of these courses must be taken as part of Core Curriculum Area IV: .*	3
Sociology	Take the following course. **SOC 100**	3
Required Social Work Courses	Take all of the following courses: **SW 100, SW 200, SW 203, SW 222, SW 302, SW 313, SW 314, SW 320, SW 321, SW 322, SW 422, SW 490, SW 494**	46
Social Work Elective	Select 3 hours from **Social Work (SW)** courses.	3
	Total Major Requirements:	**77**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
General Electives	Students must take general electives to reach the 120 semester hour requirement.

MINOR REQUIREMENTS FOR SOCIAL WORK

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A C or better is required in all courses applied to the minor.	-
Required Social Work	Take the following course: **SW 100**	3
Social Work Electives	Select 15 hours from **Social Work (SW)** courses.	15
	Total Minor Requirements:	**18**

Course Descriptions
Social Work (SW)

SW 200 - Prof Writing for Hum SVC Profs - 2
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.

SW 201 - Evidence-Based Soc Work Prac - 3
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
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 & Soc Work - 3
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.

SW 206 - Family in Cross-Cultural Persp - 3
Relationships within and among cultural units commonly referred to as "the family"; survey of domestic groups in various socio-cultural settings.

SW 207 - Racism, Sexism and Other Isms - 3
Ethical dilemmas in relating to disadvantaged groups such as minorities, aged, women, gays and lesbians, and disabled persons.

SW 222 - Values Lab - 4
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.

SW 302 - Social Welfare Policy Analysis - 3
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. *Prerequisite:* SW 203

SW 304 - Family Preservation - 3
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 Perinatal Settings - 3
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 Population - 3
Analysis of community-based programs for specific populations: older citizens, persons with HIV/AIDS, and chronic mentally ill. (Also GER 309.)

SW 313 - Human Behavior/Soc Environment - 3
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 - Hum Behavior/Soc Environmnt II - 3
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. *Prerequisite:* SW 313

SW 320 - Social Work Research - 3
Research theory, design, problem formulation, measurement, qualitative and quantitative approaches, and ethics

SW 321 - Stats for Social Work Res - 3
Introduction to descriptive and inferential statistics. Topics include measures of central tendency and dispersion, probability theory, sampling, one-and two-sample hypothesis tests. *Prerequisite:* SW 320

SW 322 - Social Work Practice I - 4
Generalist model application of social work with concentration on the micro-level that provided the student with the opportunity to gain the knowledge, skills, understanding and competence needed for interventions at the beginning professional level. This course includes a lab that allows students to practice the development of solution-focused helping relationship with emphasis on self-awareness, cultural-awareness, active listening, interviewing, and recording skills at all systems levels.

SW 339 - Child Welfare in Social Work - 3
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
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. *Prerequisite: SW 322*

SW 428 - Med and Mental Health Soc Work - 3
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
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
Study of current issues in social work.

SW 490 - Practicum in Social Work - 9
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. *Prerequisite:* SW 494

SW 494 - Practicum Seminar - 3
Topics related to professional development, practice issues, and common problems encountered in practicum. *Prerequisite:* SW 490

SW 498 - Independent Study I - 1 to 3
Research under direction of faculty member.

SW 499 - Independent Study II - 1 to 3
Research under direction of faculty member.

Department of Government

Chair: Steven H. Haeberle
Faculty: H. Brasher, R. Corbetta, W. Gunther-Canada, D. Handley, A. Haque, J. Hall, M. Howell-Moroney A. Lewis, R. Robinson, L. Sharlach, J. Slack, N. Zahariadis

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. A minor in urban affairs and courses in geography are also offered.

Political Science

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 examine the organization and management of public affairs, to explore the realm of ideas about political authority, and to master 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; and political research.

MAJOR REQUIREMENTS FOR POLITICAL SCIENCE

Requirement	Fulfilled By:	Hrs.
Grade and Level Requirement	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.	-
Required Political Science	Take all of the following courses: **PSC 101** **PSC 103** **PSC 411** **PSC 102** **PSC 104** **PSC 412** *Note: Completing **PSC 101** and **PSC 102** will automatically satisfy six hours of Core Curriculum Area IV. Completing **PSC 104** will automatically satisfy Track B of the School-Wide Requirements.*	18
Specializations	Select nine hours from one of the course groups below: ***American Government:*** **PSC 110** **PSC 222** **PSC 320** **PSC 474** **PSC 120** **PSC 223** **PSC 321** **PSC 495** **PSC 170** **PSC 224** **PSC 322** **PSC 496** **PSC 198** **PSC 225** **PSC 330** **PSC 210** **PSC 226** **PSC 331** **PSC 211** **PSC 270** **PSC 332** **PSC 220** **PSC 271** **PSC 370** **PSC 221** **PSC 295** **PSC 371**	9

	Comparative Politics: **PSC 250 PSC 253 PSC 351** **PSC 251 PSC 254 PSC 352** **PSC 252 PSC 350 PSC 353** ***International Relations:*** **PSC 260 PSC 262 PSC 361 PSC 461** **PSC 261 PSC 360 PSC 362 PSC 465** ***Political Theory:*** **PSC 240 PSC 340 PSC 341 PSC 404**	
Political Science Electives	Select 9 hours in **Political Science (PSC)** courses.	9
	Total Major Requirements:	**36**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	A minor is required for this degree.
General Electives	Students must take general electives to reach the 120 semester hour requirement.

MINOR REQUIREMENTS FOR POLITICAL SCIENCE

Requirement	Fulfilled By:	Hrs.
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.	-
Required Course	Take the following course: **PSC 101** *Note: **PSC 101** may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.*	3
Introductory Political Science courses	Select two of the following courses: **PSC 102 PSC 103 PSC 104** *Note: **PSC 102** may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.*	6
Political Science Electives	Select nine hours from **Political Science (PSC)** courses, including six hours at the 300-level or above. *Note: **PSC 102** and **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.*	9
	Total Minor Requirements:	**18**

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; and
- 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; and
- 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; and
- 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— PSC 401, 402, 403, or 404;
- 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; and
- 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, 406 Heritage Hall, Birmingham, AL 35294-1152; Telephone (205) 934-9680.

Course Descriptions
Political Science (PSC)

PSC 101 - Intro to American Government - 3
Politics, institutions, and policy-making process of American national government. (AG)

PSC 102 - Intro to Comparative Politics - 3
Compares the structures and outputs of various political systems around the world. Explores political systems of our allies and foes. (CP)

PSC 103 - Intro International Relations - 3
Explores reasons and consequences for conflict and cooperation among countries. (IR)

PSC 104 - Intro to Political Theory - 3
Origin and development of fundamental concepts of political speculation, including descriptive, causative, and normative aspects of politics dealing with value choices and ethical dilemmas. (PT)

PSC 105 - Ethics and Morality - 3
Investigates the complexity of ethical and moral issues found within contemporary public policy options and provides the necessary skills to discern and evaluate ethical and moral actions among both fellow citizens and leaders in a democratic society. (AG)

PSC 110 - Intro to Amer Public Policy - 3
Policy process at local, state, and federal levels of government. Problem identification and definition; policy formulation and enactment; implementation and evaluation; policy termination. (AG)

PSC 120 - Urban Politics - 3
Structures of urban governments, focusing on intergovernmental relations, official decision makers, and group and electoral politics in metropolitan environments. (AG).

PSC 170 - Contemporary Political Issues - 3
Selected topics of current political importance and interest. Interests identified in current schedule of classes. May be repeated with permission of department chair.

PSC 210 - Issues of Diversity - 3
An examination of diversity in America. Ethical, social and political dilemmas and challenges in relating to members of different groups. (AG)

PSC 215 - African-American Ideology - 3
Introduction to African-American political and social thought, with a particular emphasis on African-American ideologies. Identifies key figures, issues and positions of African-American political and social thought. The overall value of African American contributions in political and social thought will be critically examined. (AG)

PSC 217 - Religion and Politics - 3
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)

PSC 221 - American State and Local Gov - 3
Institutions, functions, and political processes at state and local levels of American government. (AG)

PSC 222 - Intro to Public Administration - 3
Principles and practices of governmental administration, including organization, procedures, personnel management, budgeting, and control. (AG)

PSC 223 - Urban Management - 3
Problems and operations in management of local government; relationships among administrative and political processes in urban environment. (AG)

PSC 224 - The Contemporary City - 3
Contemporary American city as economic, political and sociological system. (AG)

PSC 225 - Intro Community Planning/Dev - 3
Key topics and elements of effective community planning and development (AG)

PSC 226 - Civil/Human Rights Movement - 3
Principle events, organizations, and personalities involved in quest for political, economic, and social equality in urban America (AG)

PSC 230 - Urban Issues - 3
Studies urban settings, problems and policy using a variety of disciplinary approaches drawn from history, sociology, planning and political science. (AG)

PSC 240 - Social/Political Philosophy - 3
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. (PT)

PSC 250 - African Politics - 3
Comparative analysis of African politics and governments. (CP)

PSC 251 - European Political Systems - 3
Comparative analysis of politics in European nations (CP)

PSC 252 - Latin/South Amer Political Sys - 3
Comparative analysis of politics in Latin and South American Societies. (CP)

PSC 253 - Asian Political Systems - 3
Comparative analysis of politics in Asian nations. (CP)

PSC 260 - American Foreign Policy - 3
Creation and conduct of U.S. foreign policy. Evolution of American role in world affairs; problems, trends, and developments since World War II. (IR)

PSC 261 - International Organization - 3
Historical and functional evolution of intergovernmental organizations and existing arrangements for collaboration through United Nations, related specialized agencies, and regional organizations. (IR)

PSC 262 - Global Policy Issues - 3
Political implications of global trends in resource consumption, population growth, food production and consumption, and weapons proliferation. Adequacy of existing political and social arrangements and institutions, both national and international. (IR)

PSC 266 - The United Nations - 3
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)

PSC 270 - Political Power/American Film - 3
Concept of political power in American society and its expression in American film. (AG)

PSC 271 - Contemporary Political Issues - 3
Issues of current interest in Political Science.

PSC 272 - Model Arab League - 1
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 - Spec Topics Political Science - 3
Selected topics in Political Science.

PSC 315 - African-American Ideology - 3
Introduction to African-American political and social thought, with particular emphasis on African-American ideologies. Identifies key figures, issues, and positions of African-American political and social thought. The overall value of African-American contributions in political and social thought will be critically examined. (AG)

PSC 316 - Political Sexual Diversity - 3
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)

PSC 317 - Religion and Politics - 3
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)

PSC 318 - Black Politics - 3
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) *Prerequisite:* PSC 101

PSC 320 - Political Participation - 3
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 or interest groups. (AG) *Prerequisites:* PSC 101

PSC 321 - Public Opinion Amer Politics - 3
Public opinion and factors that shape it (socialization, media and groups); influence on elections and policy; measurement of public opinion. (AG)

PSC 322 - Women in Politics - 3
Political behavior of women as activists, voters, candidates, and office holders; policy issues affecting women. (AG)

PSC 330 - The Amer Judicial Process - 3
Structure and organization of American courts; selection of judges; judicial procedure and reasoning in case determination and development of constitutional doctrines; nature and exercise of judicial power; restraints upon courts. (AG) *Prerequisite:* PSC 101

PSC 331 - American Congress Process - 3
This course is 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.

PSC 332 - The American Presidency - 3
Presidential leadership and democratic order; legal foundations of presidential authority; popular influences and presidential politics; democracy and presidential leadership today. (AG) *Prerequisite:* PSC 101

PSC 333 - Political Parties/Interest Grp - 3
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) *Prerequisite:* PSC 101

PSC 340 - Amer Political Thought - 3
Origins and development of ideas underlying the political traditions of the United States. (PT) *Prerequisite:* PSC 104

PSC 341 - Classical Political Thought - 3
Development of Western political thought in classical period from Plato to Augustine. Focus on the emergence of democracy within the ancient polis and the connection between self-government and civic virtue. (PT) *Prerequisite:* PSC 104

PSC 342 - Modern Political Theory - 3
Development of Western political thought from early modern era to contemporary debates in works from Machiavelli to Mill. Theories of major political thinkers. (PT) *Prerequisite:* PSC 104

PSC 343 - Gender and Political Theory - 3
This course examines the relationship between gender and political theory. (PT) *Prerequisite:* PSC 104

PSC 350 - African Politics - 3
Comparative analysis of African politics and governments. (CP)

PSC 351 - European Political Systems - 3
Comparative analysis of politics in European nations. (CP)

PSC 352 - Latin/South Amer Political Sys - 3
Comparative analysis of politics in Latin and South American Societies. (CP)

PSC 353 - Asian Political Systems - 3
Comparative analysis of politics in Asian nations. (CP)

PSC 354 - East European Politics - 3
Analysis of East European domestic and foreign policies and politics. (CP)

PSC 355 - Politics of Development - 3
Major theoretical formulations of political development and analysis of political problems confronting less developed societies. (CP) *Prerequisites:* PSC 102

PSC 360 - International Security - 3
Analysis of arms race, process of arms control negotiations, and diffusion of nuclear weapons. (IR) *Prerequisite:* PSC 103

PSC 361 - N/S International Relations - 3
Relations between advanced industrial countries and underdeveloped countries, focusing on changing dynamics of these relations. (IR) *Prerequisite:* PSC 103

PSC 362 - Diplomacy - 3
Origins, institutions, functions and rules of modern diplomatic and consular practice and roles of diplomacy as instrument of national policy. (IR) *Prerequisite:* PSC 101

PSC 363 - Nationalism in World Politics - 3
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) *Prerequisite:* PSC 103

PSC 395 - Spec Topics Political Science - 3
Special topics in political science.

PSC 401 - American Government Seminar - 3
Multiple theoretical approaches employed in study of American political culture, behavior, institutions, and policy making; their usefulness in understanding domestic politics. (AG) *Prerequisite:* PSC 101

PSC 402 - Comparative Politics Seminar - 3
Multiple theoretical approaches employed in study of international relations and their usefulness in cross-national analysis of political systems. (CP) *Prerequisite:* PSC 102

PSC 403 - International Relations Sem - 3
Multiple theoretical approaches employed in study of International relations and their usefulness in investigating issues in world politics. (IR) *Prerequisite:* PSC 103

PSC 404 - Seminar in Political Theory - 3
Multiple approaches employed in study of political theory and their usefulness in forming normative judgments. (PT) *Prerequisite:* PSC 104

PSC 405 - Urban Affairs Seminar - 3
Investigation in topics of current interest in urban studies *Prerequisite:* PSC 120

PSC 411 - Intro to Research Methods - 3
Alternative approaches to analysis of research questions. Development of rigorous analytical capabilities in application of both quantitative and non-quantitative research strategies.

PSC 412 - Intro to Statistical Analysis - 3
Descriptive and inferential statistics. Measure of central tendency and dispersion, probability theory, sampling, and one-and two-sample hypothesis tests. *Prerequisites:* PSC 411 or UA 411

PSC 415 - Political Economy/Race in Bham - 3
This course provides a critical analysis of race in the political economy of Birmingham from the postbellum period to the era of civil rights. (AG)

PSC 421 - Politics/Planning/Urban Design - 3
Relationship among policies, planning and urban design. (AG) *Prerequisite:* PSC 120

PSC 430 - American Constitutional Law I - 3
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) *Prerequisite:* PSC 101

PSC 431 - American Constitutional Law II - 3
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) *Prerequisite:* PSC 101

PSC 461 - International Political Economy - 3
Increasing interaction of politics and economics in international and transnational arenas of current global system. (IR) *Prerequisite:* PSC 103

PSC 464 - Civil and Uncivil Wars - 3
Explores the causes and consequences of political violence and civil war in the modern world. Types of violence include: riots; ethnic and religious conflicts; hate crimes; coups d'etat; domestic terrorism and revolution. Also included is conflict mediation and resolution. (IR)

PSC 465 - International Law - 3
Historical roots, theoretical foundations, and substantive development of law governing relations among nations; functioning of present international legal system. (IR) *Prerequisite:* PSC 103

PSC 466 - The United Nations - 3
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)

PSC 495 - Spec Topics Political Science - 3
Group investigation of topics of current interest in political science.

PSC 496 - Independent Study/Special Projects - 1 to 3
Selected Reading or research under supervision of member of PSC department.

PSC 497 - Hon Res in Political Science - 3 to 6
Directed research by Political Science Honors student. *Prerequisites:* PSC 401 or PSC 402 or PSC 403 or PSC 404

PSC 498 - Public Affairs Internship - 1 to 3
Individually arranged assignment in public or non-profit agencies or organizations, monitored and evaluated by member of department.

Urban Affairs

Urban affairs provides broad, interdisciplinary examination of the development, functions, and problems of metropolitan areas. Urban affairs focuses on the socio-political and spatial entity of the metropolis in which the size, density, and heterogeneity of the urban population causes both problems and opportunities not found in rural communities. The minor also offers internships and co-op opportunities in urban-related agencies to provide practical work experience with academic credit.

MINOR REQUIREMENTS FOR URBAN AFFAIRS

Requirement	Fulfilled By:	Hrs.
Grade & Residency Requirement	A C or better is required in all Urban Affairs/Political Sciences courses applied to the minor. At least half of the minor must be completed at UAB.	-
Required Political Science/ Urban Affairs courses	Take all of the following courses: **UA 120/PSC 120** **UA 221/PSC 221** **UA 270/PSC 220** *Note: **PSC 221** may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.*	9
Urban Affairs Electives	Select nine hours from **Urban Affairs (UA)** courses.	9
	Total Minor Requirements:	**18**

Course Descriptions
Urban Affairs (UA)

UA 101 - The City in American History - 3
City in American history from colonial period to present. Origins of such urban activities as overcrowding, transportation, governance, privatism, and poverty.

UA 107 - History and Dev of Birmingham - 3
Social, economic, and political survey of development of Birmingham area.

UA 109 - Urban Geography - 3
External and internal spatial processes of cities and city systems, emphasis on contemporary urban problems.

UA 110 - Intro to Public Policy - 3
Policy process at local, state and federal levels of government. Problem identification and definition; policy formulation and enactment; implementation and evaluation; policy termination.

UA 120 - Urban Politics in the US - 3
Structures of urban governments, focusing on intergovernmental relations, official decision makers, and group and electoral politics in metropolitan environments.

UA 195 - Selected Topics Urban Studies - 3
Topics selected for study listed in class schedule.

UA 198 - Public Affairs Internship - 3
Individually arranged assignments, monitored and evaluated by member of department.

UA 220 - Minority Politics - 3
Minority politics in United States at national, state, and local levels of government. (AG)

UA 221 - American State and Local Gov - 3
Institutions, functions and political processes at state and local levels of American government. (AG)

UA 223 - Urban Management - 3
Problems and operations in management of local government; relationships among administrative and political processes in urban environment.

UA 224 - The Contemporary City - 3
Contemporary American city as economic, political, and sociological system.

UA 225 - Intro Community Planning/Dev - 3
Discussion of key topics and elements of effective community planning and development.

UA 226 - Civil/Human Rights Movement - 3
Analysis of principal events, organizations, and personalities involved in quest for political, economic, and social equality in urban America.

UA 230 - Urban Issues - 3
Studies urban settings, problems and policy using a variety of disciplinary approaches drawn from history, sociology, planning and political science.

UA 270 - Urban Sociology - 3
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.

UA 278 - Cities of the World - 3
Historical and contemporary patterns of world urbanization and consequences; world system of cities; core-periphery relations and development in Third World; cross-cultural analysis of urban life, urban planning and community structures in various world regions; case studies of selected world cities such as Moscow, Beijing, Baghdad, Tokyo, and New York.

UA 291 - Co-op Educ Work Experience - 1 to 3
Cooperative Education Work Experience.

UA 295 - Spec Topics in Urban Studies - 3
Special topics in urban studies.

UA 318 - Black Politics - 3
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.

UA 366 - Urban Anthropology - 3
Human life in cities from cross-cultural perspective; process of urbanization in ancient civilizations, colonial empires, and modern-day Third World.

UA 395 - Special Topics Urban Affairs - 3
Selected topics of importance and interest in urban affairs.

UA 411 - Intro to Research Methods - 3
Alternative approaches to analysis of research questions. Development of rigorous analytical capabilities in application of both quantitative and non-quantitative research strategies.

UA 412 - Intro to Statistical Analysis - 3
Descriptive and inferential statistics. Measure of central tendency and dispersion, probability theory, sampling, and one-and two-sample hypothesis tests. *Prerequisites:* PSC 411 or UA 411

UA 413 - Urban Economics - 3
Economic issues and structure of metropolitan areas. Economic growth and decay of urban regions. Specific topics: housing, education, employment, political economy, public policy. *Prerequisites:* EC 210 and EC 211

UA 421 - Politics/Planning/Urban Design - 3
Relationship among politics, planning, and urban design. *Prerequisite:* UA 120

UA 450 - Contemporary Urban Issues - 3
Topics of current importance and interest in the contemporary urban arena.

UA 472 - Homelessness: Causes/Consequen - 3
Review of current problems of homelessness in U.S. issues of history, health, mental health, poverty, public attitudes, and government policy.

UA 473 - Urban Environmental Issues - 3
Broad examination of environmental issues; focus on Birmingham area.

UA 490 - Dir Readings Urban Studies - 1 to 3
Selected readings under supervision of faculty member.

UA 491 - Dir Readings Urban Studies - 1 to 3
Selected reading under supervision of faculty member.

UA 492 - Public Affairs Internship - 3
Individually arranged assignments, monitored and evaluated by member of department.

UA 493 - Field Placement - 3
Individually arranged assignments, monitored and evaluated by member of department.

UA 495 - Urban Studies: Spec Topics Sem - 3
Group investigation of topics of current interest in urban studies. Topics selected for analysis listed in class schedule.

UA 496 - Urban Research - 3
Directed research for students with adequate background in methods and statistics; classroom introduction to research methodology and directed group research for those without significant research statistics background.

UA 497 - Urban Research - 3
Directed research for students with adequate background in methods and statistics; classroom introduction to research methodology and directed group research for those without significant research statistics background.

Graduate Programs

For information on the Master of Public Administration degree program, please consult the program advisor or the UAB Graduate School Catalog.

Department of History

Chair: James F. Tent
Faculty: Conley, C. Davis, Doss, Huntley, Keitt, King, Lesnick, Liber, McConnell, McWilliams, Millard, Miller, Mohl, Murray, Steele, Van Sant, Webb

The Department of History offers the Bachelor of Arts degree and the Master of Arts degree in history. The undergraduate program is designed to give students insight into the world in which they live and into the forces and events that have shaped and molded that world. 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.

MAJOR REQUIREMENTS FOR HISTORY

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A grade of C or better is required in all History (HY) courses.	-
History Sequences	Select four of the following courses (students may not take both HY 101 and HY 104 or both HY 102 and HY 105): **HY 101** **HY 104** **HY 120** **HY 102** **HY 105** **HY 121** *Note: Completion of this requirement will automatically satisfy Core Curriculum Area IV: History.*	12
Research Course	Take the following course: **HY 300**	3
History Electives	Select 21 hours in **History (HY)** courses not listed above, including 9hours at the 400-level and 6 hours at the 300 level or above. *Note: **HY 245**, **HY 247**, **HY 248**, **HY 257**, **HY 258** and **HY 263** can be applied toward this requirement as well as the School-Wide Requirements: Track A requirement. **HY 125** can be applied toward this requirement as well as the School-Wide Requirements: Track C requirement.*	21
	Total Major Requirements:	**36**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	A minor is required for this degree.
General Electives	Students must take general electives to reach the 120 semester hour requirement.

Note: *Majors may want to consult the Director of Undergraduate Programs in the department office prior to taking electives or 300-or 400-level courses to plan a broad program that includes courses in European, U.S., and non-Western areas of history. Fifteen semester hours of upper-division work beyond HY 300 must be taken at UAB; Students may take no more than two directed readings courses. No grade below C may be counted toward the history major. All majors may be required to complete an examination for program assessment as a requirement for graduation. Performance on such an examination will not affect students' grade point averages, nor will it be a factor in determining whether students qualify for the baccalaureate degree.*

MINOR REQUIREMENTS FOR HISTORY

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A C or better is required in all courses applied to the minor.	-
Introductory U.S. History	Select one of the following courses: **HY 120** **HY 121** *Note: **HY 120** and **HY 121** may also apply toward Core Curriculum Area IV.*	3
Introductory History courses	Select two of the following courses (students may not take both HY 101 and HY 104 or **HY 101** **HY 104** **HY 120** **HY 102** **HY 105** **HY 121** *Note: **HY 101**, **HY 102**, **HY 120** and **HY 121** may also apply toward Core Curriculum*	6
History Electives	Select six hours from 300-level or above **History (HY)** courses and three hours any	9
	Total Minor Requirements:	**18**

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. This program affords qualified students the opportunity to interact with faculty and other talented students in a seminar environment that encourages independent thinking and critical analysis. 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 must be completed prior to acceptance in the Honors Program.

Interested students should submit a written letter of application and two writing samples to the History Honors Committee, c/o Chair of the Department of History.

Requirements

The History Honors Program requires 39 total semester hours in history (as compared to 36 for the traditional history major) and maintenance of an overall 3.0 GPA and a 3.5 GPA in history courses through graduation.

Additional requirements include:

- 12 semester hours of lower-division survey courses selected from Western Civilization, HY 101 and 102, United States History, HY 120 and 121;
- 3 semester hours of HY 300, The Historian's Craft. The department recommends that this course be taken after the completion of the lower-division survey requirement and before taking upper-division courses;
- 9 semester hours of HY courses numbered 300 or 400 (these courses may not be transferred from another institution and must be taken at UAB);
- 6 semester hours of history electives;
- 3 semester hours of HY 490, Undergraduate Seminar in History (a reading and discussion seminar with short critical papers based on readings); and
- 6 semester hours of HY 401, Honors Thesis in History (should be taken twice for a total of six semester hours).

39 semester hours total Honors in History major requirements.

Honors students may take one or two graduate seminars in history for undergraduate credit with permission of the History Honors Committee and the professor teaching the graduate seminar. 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 Undergraduate Programs or Chair; Telephone (205) 934-5634.

Course Descriptions
History (HY)

HY 101 - Western Civilization I - 3
From antiquity to the rise of Early Modern Europe circa 1650.

HY 102 - Western Civilization II - 3
Early Modern Europe to present.

HY 104 - World History to 1600 - 3
A survey of world societies, cultures, and major civilizations from pre-historic beginnings to the early modern era. HY 104 may replace HY 101, but both may not be taken for credit.

HY 105 - World History 1600 to Present - 3
A survey of world societies from the early modern era to the present. HY 105 may replace HY 102, but both may not be taken for credit.

HY 120 - The United States To 1877 - 3
Social, political, economic, and cultural forces affecting migration of Europeans and Africans to New World, creation of American Republic, and Civil War and Reconstruction.

HY 121 - The United States Since 1877 - 3
Social, political, and economic forces affecting development of the United States as industrial power. Growth of U.S. during 20th century, increasing role in world affairs, and domestic consequences of superpower status.

HY 201 - Economic History of the US - 3
Economic developments of U.S. from colonial times to present, focusing on business organization, technology and innovation.

HY 203 - History of American Technology - 3
History of civilization of new technology in the United States emphasizing role of inventors and engineers.

HY 207 - The American Film - 3
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 210 - History of American Medicine - 3
Survey of patterns and trends in American medicine.

HY 223 - African-Amer Hist To 1865 - 3
Ancient African civilizations and their demise, the slave trade and slavery in New World to the Civil War.

HY 224 - African-Amer Hist From 1865 - 3
Survey of late 19th century to present African American history.

HY 225 - History of Alabama - 3
Social, economic, and political survey of state from prehistory to present.

HY 226 - History and Dev of Birmingham - 3
Social, economic, and political survey of the Birmingham area.

HY 227 - Technology and Society - 3
Relationship of machines and people in modern industrial society. Topics from recent American history and from contemporary problems.

HY 235 - War in the Modern World - 3
American military history from colonial times to present, including impact of Western ideas and technology on national defense policy.

HY 245 - Intro to Latin Amer History - 3
Major social, political, economic, and cultural developments in Latin America from pre-Colombian times to present.

HY 247 - Colonial Latin America - 3
Major pre-Colombian civilizations, focusing on impact of European contact and emergence of new hybrid societies by eighteenth century in Brazil and Hispanic America.

HY 248 - Modern Latin America - 3
Social, political, and economic trends marking history of region since early 19th century, aiding understanding of conditions in Latin America today.

HY 251 - Nineteenth-Century Europe - 3
National consolidation, imperialist adventure, and European society and politics from 1815 to 1914.

HY 252 - Twentieth Century Europe - 3
Europe as transformed by total war, economic dislocation, rise of totalitarian movements, and post-1945 integration from 1914 to present.

HY 257 - Celtic Fringe: Ire/Scot/Wales - 3
History of "other" British nations: Irish, Scots, and Welsh. Internal development and relations with England.

HY 258 - Britain and the Third World - 3
British foreign policy, emphasizing Empire and British relations with peoples outside Europe.

HY 260 - History of France: 1500-1789 - 3
Social history of 16th to18th century France, including growth of monarchy, wars of religion, peasant uprisings, popular culture, Catholic resurgence, Louis XIV, and achievements in arts and literature.

HY 261 - Modern France 1789 onwards - 3
French history from Revolution of 1789 to present with emphasis on political, social, and economic aspects.

HY 262 - Early Modern Spanish History - 3
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
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
Russian Revolution with emphasis on political, social, and national conflicts in cities, in countryside, and in non-Russian areas.

HY 265 - History of Sov Union 1917-1991 - 3
Bolshevik Revolution and role of Soviet Union as world power.

HY 270 - Topics in History - 3

HY 271 - Trad E Asian History/Culture - 3
An introduction to the histories and cultures of East Asia (China, Japan, Korea, and Southeast Asia) from ancient times to the present.

HY 283 - Old World Archaeology - 3
Prehistory of Africa, Asia, and Europe from Paleolithic to Early Bronze Age. Hunter-gatherer adaptations, emergence of village-based agriculture, and appearance of cities.

HY 284 - Arch: Orig of Civilization - 3
Development of complex society in the Fertile Crescent, Egypt, Mesopotamia, and Mediterranean, from origins of agriculture to Alexander the Great.

HY 290 - Topics in History - 3
Special studies of historical topics. May be repeated.

HY 291 - Topics in History - 3
Special Topics in History. May be repeated for credit.

HY 292 - Topics in History - 3
Special studies of historical topics. May be repeated.

HY 300 - The Historian's Craft - 3
Values, methodology, and materials of historical analysis, with emphasis on changing interpretations of history and writing of research paper.

HY 303 - Women in American History - 3
Changing economic, political, and social roles of women from colonial period to present.

HY 304 - US Civil Rights Movement - 3
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
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 306 - Social Hist of the Automobile - 3
Impact of automobile on American life and creation of car culture. Effect on environment and urban life.

HY 307 - The American Film - 3
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 US Popular Music - 3
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: 1980s and 1990s - 3
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 - African-American Film - 3
A history of the ways that African Americans have been depicted in films and TV and how this has impacted American society. Starts in the silent film era and ends with the boyz in the hood. Focuses on black film makers and their efforts to be heard.

HY 311 - History of the Documentary - 3
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
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 320 - Pol Hist: Roosevelt-Roosevelt - 3
History of the period between 1900 and 1945, with emphasis on national politics.

HY 322 - The Great Depression - 3
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 - South Politics in 20th century - 3
The social and economic bases of Southern politics.

HY 327 - Southern Labor History - 3
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
Role and influence of working women on American history as social and political force in creating work identity and culture.

HY 341 - US-Latin American Relations - 3
Diplomatic relations between U.S. and Latin America since early nineteenth century. Roots of contemporary conflicts involving issues such as revolution and drug trafficking.

HY 342 - History of Women Latin America - 3
Condition of Latin American women in historical perspective with reference to factors such as race, class, religion, and ethnicity; Hispanic cultural attitudes that have shaped that condition over time.

HY 351 - Continental Enlightenment - 3
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
Origins, development, and spread of Christianity from antiquity to the modern world. *Prerequisites:* HY 101 and HY 102

HY 355 - The Reformation - 3
Issues and meanings of the Protestant and Catholic Reformations of the 16th and 17th centuries, with particular attention to intellectual, social, and political dimensions. *Prerequisite:* HY 101

HY 357 - Religion Early Modern Eur Hy - 3
The role of religion in shaping early modern attitudes toward politics, science, literature, and art.

HY 360 - Celtic Fringe: Ire/Scot/Wales - 3
History of other Britain nations: Irish, Scots, and Welsh. Internal development and relations with England.

HY 361 - Britain and the Third World - 3
British foreign policy, emphasizing Empire and British relations with peoples outside Europe.

HY 370 - End of USSR - 3
An analysis of Gorbachev's impact on the Soviet Union and the social and political forces he unleashed.

HY 371 - Soviet Rev 1989-91 - 3
Describes and analyzes the impact on the U.S.S.R. of the 1989 revolutions in Eastern Europe.

HY 375 - The Pacific War, 1931-1945 - 3
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 390 - Topics in History - 3
Special studies of historical topics. May be repeated.

HY 391 - Topics in History - 3
Special studies of historical topics. May be repeated.

HY 392 - Topics in History - 3
Special studies of historical topics. May be repeated.

HY 401 - Honors Thesis - 3
Independent research project for honors students in history, directed by faculty advisor. Course taken twice to produce thesis for Honors in History.

HY 403 - Colonial Amer History to 1765 - 3
Examines colonial North America, especially Britain's colonies, their social and cultural development, and the emergence of distinctive British American and African American identities. *Prerequisite:* HY 120

HY 404 - American Rev 1760-1783 - 3
Intellectual and social origins and aspects of the revolutionary era. *Prerequisite:* HY 120

HY 405 - War and Society Early America - 3
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

HY 407 - Early Amer Frontiers 1492-1815 - 3
Examines encounters between native peoples and colonists, with emphasis on regions that became part of British Colonial America.

HY 408 - The New Nation, 1783-1815 - 3
Intellectual, political, and social origins and aspects of post-revolutionary era. *Prerequisite:* HY 120

HY 409 - US Constitu History to 1877 - 3
Landmark cases in interpretation of Constitution against background of American history. *Prerequisite:* HY 120

HY 410 - US Constitu History from 1877 - 3
Landmark cases in interpretation of Constitution against background of American history. *Prerequisite:* HY 121

HY 411 - The Antebellum South - 3
South from post-revolutionary era through 1860, emphasizing social and cultural developments and myths. *Prerequisite:* HY 120

HY 412 - The American Civil War - 3
Origins of secession and political, social, military, and diplomatic developments during war. *Prerequisite:* HY 120

HY 413 - Reconstruction in America - 3
Myths and realities of Reconstruction from 1865 to 1877. *Prerequisite:* HY 120

HY 414 - The New South, 1877 to 1945 - 3
Political, economic, and urban development of South from Reconstruction to end of World War II. *Prerequisite:* HY 121

HY 415 - Modern South, 1945 to Present - 3
Social, political, and cultural developments of post-World War II South, including urbanization, civil rights, political party transformations, ethnic diversification, and federal public policy. *Prerequisite:* HY 121

HY 417 - Modern Amer 1877-1920 - 3
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
American popular culture, political development, and economic change in period between two World Wars. *Prerequisite:* HY 121

HY 419 - The Second World War - 3
Diplomatic and military history, with emphasis on world-historical changes brought about by World War II.

HY 420 - Recent America: 1945-Present - 3
Economic, social, and political trends; history of Cold War.

HY 421 - America in Vietnam - 3
History of "America s longest war."

HY 423 - Southern Women: Image/Reality - 3
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

HY 425 - American Myths and Values - 3
Major myths that inform and are informed by American values; how these have molded American character. How myths and values have determined the way dominant American culture has viewed various social groups.

HY 426 - Arch Amer Indus Revolution - 3
Techniques for interpreting and documenting archaeological and other material remains of American industrial revolution, with emphasis on blast furnaces, mines, and other sites in mineral region of Central Alabama. Comparative historical development of industrial revolutions within capitalist world economy.

HY 427 - History of American Technology - 3
Development and impact of new technology in U.S. from colonial period to present.

HY 428 - Technology and American Life - 3
Impact of technology on modern American life and culture; automobile, television, and computer.

HY 429 - Workers in American Society - 3
Seventeenth century artisans to contemporary factory and office workers, organized and unorganized; effect of industrial and technological revolution on American labor, society, and politics. *Prerequisite:* HY 120

HY 431 - Amer Film and Violent Society - 3
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 433 - Americans and the World - 3
Major developments in American foreign relations from colonial times to present. *Prerequisites:* HY 120 and HY 121

HY 434 - As Others See Us: US History - 3
Joint American Studies/International Studies surveying international perceptions of U.S. culture.

HY 435 - American Urban History - 3
Major patterns of urbanization and urban life in American history.

HY 438 - Changing American Landscape - 3
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 or HY 121

HY 446 - Andean Nations - 3
History of major drug-producing nations of Colombia, Peru, and Bolivia, and their relationship to rest of world. *Prerequisites:* HY 245 or HY 247 or HY 248 or HY 341 or HY 342

HY 447 - Modern Mexico - 3
History of Mexico since independence from Spain in 1821. Growth and impact of nationalism, Mexico's relations with U.S., and impact of Mexican Revolution of 1910. *Prerequisites:* HY 245 or HY 247 or HY 248 or HY 341 or HY 342

HY 451 - History of Greece - 3
Ancient Greece from prehistory to Alexander and Hellenistic Age.

HY 452 - History of Rome - 3
Ancient Rome from time of Etruscans through Republic and Empire until decline in the 4th century A.D.

HY 454 - Heresy and Witchcraft - 3
Religious dissent, deviance, and persecution from late antiquity to 17th century. *Prerequisite:* HY 101

HY 455 - The Middle Ages - 3
Fall of Roman Empire and impact of Germanic invasions; feudal society, birth of European monarchies, religiosity and Church, Scholasticism and Gothic, and rebirth of commerce and urban life. *Prerequisite:* HY 101

HY 456 - The Renaissance - 3
From background of medieval society to birth of commercial, urban society; individualism; development of centralized territorial state; popular piety; humanism and art. *Prerequisite:* HY 101

HY 457 - Nineteenth-Century Europe - 3
National consolidation, imperialist adventure, and European society and politics, 1815-1914.

HY 458 - Modern Europe - 3
Europe as transformed by total war, economic dislocation, and rise of totalitarian movements; 1914 to present.

HY 459 - European Cult/Intellectural Hy - 3
European thought and culture from the early modern period to the present.

HY 460 - Ancient and Medieval Britain - 3
Celtic, Anglo-Saxon, Roman, and Viking influences and evolution of kingdom from Norman Conquest to reign of Edward III.

HY 461 - English History: Revolutions - 3
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
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
Social and political history of 19th century Britain.

HY 464 - Modern Great Britain - 3
Problems facing Britain in the 20th century, including end of empire, economic decline, and political restructuring.

HY 465 - French Enlightenment - 3
French Enlightenment as intellectual and social phenomenon.

HY 467 - Modern France 1815 - Present - 3
Economic, social and political history of France. How French working men and women sought to obtain a democratic republic.

HY 468 - Germany Under Three Reichs - 3
Central Europe from Wars of Religion through national unification to Weimar, Third Reich, and its aftermath.

HY 469 - Stalin and Stalinism - 3
Rise of Josef Stalin and political and social order he created. Stalin supporters, opponents, and silent majority. *Prerequisites:* HY 102 or HY 105 or HY 121

HY 470 - The Soviet Union Since 1953 - 3
Soviet economic, political, and social trends since Stalin's death in 1953. *Prerequisites:* HY 102 or HY 105 or HY 121.

HY 475 - Modern China - 3
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
Japan's political and cultural history from its legendary beginnings to the final decades of the Tokugawa shogunate.

HY 477 - Modern Japan - 3
Japan's political and cultural history from the Meiji Restoration to the present.

HY 481 - Public History - 3
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 to 3
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 - Environmental Study - 1 to 3
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 490 - Undergraduate Sem in History - 3
Topic varies depending on professor.

HY 491 - Directed Readings in History - 1 to 3
Individually designed course of reading in various fields.

HY 492 - Directed Readings in History - 3
Individually designed course of reading in various fields.

HY 493 - Honor Studies in History - 3
For advanced students in history who desire a seminar experience. Faculty and topics will vary.

HY 498 - Topics in History - 3
Special Studies in Historical Topics

HY 499 - Topics in History - 3
Special Studies in Historical Topics

Department of Justice Sciences

Chair: John J. Sloan, III
Faculty: H. Copes, M. Earwood, J. Grimes, K. Kerley, J. Linville, S. McGrath, K. Morgan, S. Perumean-Chaney, M. Stone
Secondary and Adjunct Faculty: A. Bej, A. Berry, R. Berry, D. Blass, K. Bowen, J. Duke, J. Glass, P. Greene, C. Harper, J. Ott, J. Phillips, A. Purcell, M. Rector, H. Rivera, H. Sands, T. Singleton, A. Skjellum, C. Smith, J. Sparks, C. Tubbs, R. Turpen, G. Warner, S. Wells, B. Wheatley

The Department of Justice Sciences offers courses of study leading to the Bachelor of Science in Criminal Justice (B.S.), the Master of Science in Criminal Justice (M.S.C.J.), and the Master of Science in Forensic Science (M.S.F.S.). The Department also offers a minor in Legal Affairs through its Pre-Law Program, and a minor in Forensic Psychology offered jointly with the Department of Psychology and category "A" and "B" graduate certificates in Computer Forensics. The Bachelor of Science program offers students broad academic exposure to the fields of criminal justice and criminology, while providing opportunities for concentrated study in one or

more areas, including corrections, criminology, forensic science, juvenile justice, law, and policing. The program's primary purpose is to develop in students, a general understanding of the multidisciplinary nature of criminal justice while exposing them to an in-depth examination of topics related to careers in the field. 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 Department's Pre-Law Program Director. Students interested in either the Forensic Psychology minor or the graduate certificate programs in Computer Forensics should contact the Department Chair.

MAJOR REQUIREMENTS FOR CRIMINAL JUSTICE

Requirement	**Fulfilled By:**	**Hrs.**
Grade and Residency Requirement	A grade of C or better is required in all Justice Science courses. At least 9 hours must be taken at the 400 – level or higher and 3 hours of 300 – level beyond JS 300.	-
Required Justice Sciences	Take all of the following courses: **JS 100 JS 101 JS 220 JS 230 JS 240 JS 300 JS 410 JS 499**	24
Statistics Requirement	Select one of the following courses: **JS 120 PSC 412 SOC 410** **MA 180 QM 214**	3
Justice Science Electives	Remainder of the courses include 9 hours of electives in one of six areas of concentration and 3 hours of any criminal justice elective OR 12 hours of criminal justice electives from any of the criminal justice courses. Corrections: JS 340, JS 341, JS 342, JS 343, JS 445 Criminology: JS 360, JS 362, JS 408, JS 440, JS 441, JS 442, JS 443, JS 444, JS 483 Forensic Science: JS 110, JS 250, JS 350, JS 351, JS 352, JS 405, JS 450, JS 453, JS 456 Juvenile Justice: JS 408, JS 411, JS 412, JS 445 Law: JS 150, JS 330, JS 331, JS 332, JS 333, JS 335, JS 401, JS 402, JS 434, JS 444 Policing: JS 320, JS 321, JS 322, JS 405 *Note: **JS 115** can be applied toward this requirement as well as the School-Wide Requirements: Track A requirement.*	12
	Total Major Requirements:	**39**

ADDITIONAL REQUIREMENTS

Requirement	**Fulfilled By:**
Minor	A minor is required for this degree.
General Electives	Students must take general electives to reach the 120 semester hour requirement.

MINOR REQUIREMENTS FOR CRIMINAL JUSTICE

Requirement	**Fulfilled By:**	**Hrs.**
GPA Requirement	A C or better is required in all courses applied to the minor.	-
Required Justice Sciences courses	Take all of the following courses: **JS 100 JS 101 JS 220 JS 230 JS 240**	15
Justice Science Electives	Select six hours from **Justice Sciences (JS)** courses, with both courses being at the 300-level or above.	6
	Total Minor Requirements:	**21**

Honors Program in Justice Sciences

Purpose

The Justice Sciences 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);
- Complete and submit an application for admission to the Honors Program Coordinator;
- Schedule and complete an interview with the Honors Program Coordinator;
- Complete all required courses for the 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;

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, JS481: Honors Seminar (Fall semester) and JS482: 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 meetings, such as the Annual Meetings of the Southern Criminal Justice Association.

Benefits

Participation in the Justice Sciences 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 Justice Sciences."

Contact

For additional information on the Justice Sciences Honors Program, please contact Dr. Kent R. Kerley, Department of Justice Sciences, UBOB 210, 1530 3rd Ave South, Birmingham AL 35294-4562; Telephone (205) 934-2069; E-mail: krkerley@uab.edu.

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 also provides students the opportunity to develop a solid foundation of knowledge regarding such topics as: the origins and functions of law; the basic rules of law; comparative legal systems; law as a social phenomenon; the influences and effects of the legal profession on society; and the impact of societal trends and changes on law. Additionally, 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 department'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 all elective courses build upon two required courses: JS150 (Foundations of Law) and JS230 (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 who are Criminal Justice majors and declared that major after August 1, 2006 will enroll in PSC330 (American Judicial Process) in lieu of JS230. **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

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **JS 150** **JS 230 OR PSC 330**	6
Core Electives	Select three of the following courses: **JS 330 JS 331 JS 332 JS 333 JS 334** **JS 335 JS 336 JS 412 JS 413 JS 434** **JS 435 JS 437 JS 444 PSC 430 PSC 431**	9
Additional Electives	Choose any one of the following courses: **AC 457 AHS 318 CE 431 CE 449 ECY 477** **HY 409 HY 410 LS 246 PHL 135 PHL 435** **PY 376 SW 450**	**3**
	Total Minor Requirements:	**18**

A grade of "C" or better required for all courses.

Forensic Psychology Minor (24 Semester Hours)

The Department of Justice Sciences jointly offers with the Department of Psychology a minor in Forensic Psychology. 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. Professional psychologists specializing in forensic psychology work with individuals who may present a variety of mental health issues within the context of the civil (e.g., personal injury suits, civil commitment proceedings, child custody disputes, or workers' compensation cases) and criminal (e.g., insanity, competency to stand trial, assessment of future violence potential, or treatment of sex offenders) arenas of the law. A total of 24 semester hours is required to complete the minor.

FORENSIC PSYCHOLOGY MINOR

Requirement	Fulfilled By:	Hrs.
Required Courses	Take all of the following courses: **JS 125/PY 220 JS 110 PY 275 JS 330 JS 332** **PY 372 OR PY 218 JS 402**	21
Elective	Select one of the following special topic courses: PY 420 - Special Topics 1) Social Aspects of Forensic Psychology 2) Cognitive Aspects of Forensic Psychology 3) Developmental Aspects of Forensic Psychology 4) Clinical Aspects of Forensic Psychology	3
	Total Major Requirements:	**24**

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 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.

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 offers opportunities for specialization in forensic drug analysis, forensic serology and analysis of trace evidence. The programs leading to category "A" and "B" certificates in Computer Forensics combines coursework from multiple disciplines including criminal justice, forensic science, and computer science, and is 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 Department's Pre-Law Program offers a minor in Legal Affairs and is home to the University's nationally competitive and award winning undergraduate Mock Trial team. Consult the Program Director or Department Chair for more information.

Course Descriptions
Justice Sciences (JS)

JS 100 - Intro Criminal Justice System - 3
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
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 - Intro to Forensic Science - 3
Overview of the major components of forensic science including death investigation, toxicology, osteology, questioned documents, law, and criminalistics. Laboratory fee is charged.

JS 115 - Comparative Crim Justice Syst - 3
Analysis of police, judicial, and correctional components of formal systems of social control established by nations representing the world's four major legal cultures: Common Law, Islamic, Napoleonic and Socialist/Marxist.

JS 125 - Intro to Forensic Psychology - 3
Overview of issues involving the intersection of law and psychology. Focus on role of clinical assessment of competency, scientific jury selection, expert witnesses in court, punishment and sentencing, and related issues.

JS 150 - Foundations of Law - 3
Examination and analysis of the evolution, function, and sources of law and legal systems in Western culture.

JS 160 - Intro to Private Security - 3
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
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:* CJ 100 or JS 100

JS 230 - Judicial Process in America - 3
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:* CJ 100 or JS 100 or JS 150

JS 240 - Corrections America: Overview - 3
Introduction to history and evolution of probation, prisons, parole, and community-based programs for adult and juvenile offenders. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 250 - Criminalistics: An Overview - 3
Introduction to identification and application of major types of physical trace evidence in criminal cases involving analysis and comparison. Laboratory component included; Laboratory fee is charged. *Prerequisites:* CJ 100 and CJ 110 or JS 100 and JS 110

JS 300 - Research Methods in Crim Just - 3
Introduction to elementary quantitative and qualitative research designs used to collect and analyze criminal justice agency data; includes discussion of program evaluation. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 317 - Social Research Methods - 3
Introduction to elementary quantitative and qualitative research designs used in social scientific research, including surveys, experiments, and field research.

JS 320 - Police Org and Behavior - 3
Analysis of the structure and function of police organizations, including effects of peer and group dynamics on decision making. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 321 - Police-Community Relations - 3
Historical and contemporary relationship between police and public; Analysis of crime prevention programs, community participation, and police discretion. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 322 - Legal Aspects of Private Secu - 3
Introduction to an examination of critical legal aspects of private security, including liability issues. *Prerequisite:* JS 160

JS 330 - Criminal Law - 3
Analysis of the development of criminal law, including elements of the criminal offense, types of offenses, defenses in criminal cases, appellate case analysis, and legal terminology. *Prerequisites:* CJ 100 or JS 100 or JS 150 and JS 230

JS 331 - Criminal Procedure - 3
Introduction to legal rules relating to the criminal process from investigation through punishment. *Prerequisites:* CJ 100 or JS 100 or JS 150 and JS 230

JS 332 - Criminal Evidence - 3
Examination of the system of rules and standards, both state and federal, by which admission of proof at criminal trial is regulated. *Prerequisites:* CJ 100 or JS 100 or JS 150 and JS 230

JS 333 - Trial Advocacy - 3
Overview of preparations for civil and criminal litigation including courtroom procedure, evidence, and the art of advocacy. *Prerequisites:* CJ 100 or JS 100 or JS 150 and JS 230

JS 334 - Legal Research and Writing - 3
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:* CJ 100 or JS 100 and JS 150 or JS 230

JS 335 - Mediation - 3
Examination of a specific form of alternative dispute resolution (ADR), including its history, development, and processes. *Prerequisites:* CJ 100 or JS 100 and JS 230

JS 340 - Society & Offender - 3
Examination of historical and contemporary societal reaction to offenders, including re-entry crisis and problems of ex-offenders.

JS 341 - Correctional Institutions - 3
Introduction to history, structure, and function of prisons, jails, and juvenile institutions in the United States. Evolution of penology, correctional change strategies, inmate social system, stress, violence, and reform. *Prerequisites:* CS 100 and CJ 101 and JS 100 and JS 101

JS 342 - Probation and Parole - 3
Analysis of history, structure, and function of probation and parole systems in the United States; Role of pre-sentence investigation, offender selection and classification, supervision, and administration. *Prerequisites:* CJ 100 and CJ 101 and JS 100 and JS 101

JS 343 - Community-Based Corrections - 3
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:* CJ 100 and CS 101 or JS 100 and JS 101 and JS 240

JS 350 - Forensic Science Lab I - 3
Introduction to basic identification and individualization of common, frequently occurring physical evidence materials, with emphasis on those derived from physical contact leaving impressions. Laboratory fee is charged. *Prerequisites:* CJ 100 and CJ 101 and CJ 110 and JS 100 and JS 101 and JS 110

JS 351 - Forensic Science Lab II - 3
Basic identification and individualization of common, frequently occurring physical evidence materials, with emphasis on trace evidence. Laboratory fee is charged. *Prerequisites:* CJ 100 and CJ 110 or JS 100 and JS 110

JS 352 - Forensic Science Lab III - 3
Basic identification and individualization of common, frequently occurring physical evidence materials, with emphasis on biological materials. Laboratory fee is charged. *Prerequisites:* CJ 100 and CJ 110 or JS 100 and JS 110

JS 360 - Criminology - 3
Identification and assessment of early and modern theories concerning the causes of crime in society. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 362 - Victimology - 3
Examination of the criminal-victim relationship and societal reaction to victims including victim services, restitution, and compensation. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 402 - Intro to Computer Forensics - 3
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. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 403 - Restorative Justice - 3
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. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 404 - Serial Killers - 3
Examination of the psychology and sociology of serial killers and case studies and agency responses to these offenders. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 408 - Juvenile Delinquency - 3
Introduction to the nature, scope, and causes of illegal behavior by juveniles, and societal responses to that behavior. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 410 - Criminal Justice Ethics - 3
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. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101 and JS 220 and JS 230 and JS 240

JS 411 - Juvenile Justice System - 3
Introduction to the evolution and operation of specialized agencies and procedures to address juvenile law-breaking, including emerging problems and solutions. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 412 - Juvenile Law - 3
Review and analysis of historical and emerging statutory and case law in American juvenile justice. *Prerequisites:* CJ 100 or JS 100 and JS 150 or JS 230

JS 413 - The Legal Profession - 3
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. *Prerequisites:* CJ 100 and JS 100 or JS 150 and JS 230

JS 434 - Mock Trial Competition - 3
Represent UAB as member of Mock trial Team in invitational, regional, and national competition. May be repeated for a maximum of 6 hours. Suggested prerequisite: JS 100, JS 230, JS 330, JS 331, JS 332 & JS 333.

JS 440 - White Collar and Corporate Crime - 3
Introduction to, and analysis of, illegal/deviant behavior occurring in organizational settings, including crimes committed by and against complex organizations. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 441 - Terrorism and Social Control - 3
Exploration of causes and consequences of terrorism and how governments respond, including investigation, prosecution, and punishment of terrorists. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 442 - Race, Crime, Gender Soc Policy - 3
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. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 443 - Women and the Crim Justice Sys - 3
Evaluation of the changing role of women in the justice system as victims, offenders, and professionals. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 444 - Law and Society - 3
Examination of how law is used to facilitate or retard social change, social control, and social conflict in society. *Prerequisites:* CJ 100 or JS 100 or JS 150 and JS 230

JS 445 - Juvenile Corrections - 3
Examination of historical and contemporary efforts to reduce juvenile delinquency with particular attention to innovative programs and evaluation of their effectiveness. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 450 - Questioned Death Investigation - 3
Introduction to and analysis of questioned deaths, including techniques used in case investigation; overview and history of coroners' offices in the U.S. Laboratory fee charged. *Prerequisites:* CJ 100 and CJ 110 or JS 100 and JS 110

JS 451 - Research Methods in Forensic Science - 3
Review of routinely used methods to conduct forensic science research. *Prerequisites:* CJ 100 and CJ 110 or JS 100 and JS 110

JS 452 - Questioned Documents - 3
Introduction to and analysis of questioned documents, including techniques used in case investigation. Laboratory fee charged. *Prerequisites:* CJ 100 and CJ 110 or JS 100 and JS 110

JS 453 - Investigation Fires/Explosions - 3
Introduction to arson investigation including overview of specific techniques used in case investigation. Laboratory fee charged. *Prerequisites:* CJ 100 and CJ 110 or JS 100 and JS 110

JS 456 - Forensic Anthropology - 3
Introduction to branch of anatomy concerned with the study of the structure and function of bones with particular emphasis on ability to identify age, sex, and population type of skeletal material. *Prerequisites:* CJ 100 and CJ 110 or JS 100 and JS 110

JS 460 - Violence: An American Trad - 3
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. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 481 - Honors Research- 3
Develop undergraduate Honors Project. *Prerequisites*: Admission to the Honors Program

JS 482 - Honors Research and Colloquium- 3
Completion of undergraduate Honors Project under guidance of faculty member and presentation of project at department colloquium. *Prerequisites*: Admission to the Honors Program

JS 483 - Patterns in Crime - 3
Examination of the major correlates of crime and criminality, including age, race, sex, and socio-economic status, examination of major sources of information from which data on crime correlates are gathered. *Prerequisites:* CJ 100 and CJ 101 or JS 100 and JS 101

JS 490 - Indep Res in Criminal Justice - 1 to 3
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 - Indep Res in Criminal Justice - 1 to 3
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 for Practitioners - 3 to 6
Supervised field experience in criminal justice or related agency for practitioners pursuing internship credit for the criminal justice major. *Prerequisite:* Permission of Internship Coordinator

JS 498 - Distance Internship - 3 to 6
Supervised field experience in criminal justice or related agency that is occurring more than 100 miles form Birmingham.. *Prerequisite:* Permission of Internship Coordinator

JS 499 - Internship in Criminal Justice - 3 to 6
Supervised field experience in criminal justice or related agency setting. May be repeated for maximum of 12 hours of which not more than 6 hours may count toward fulfilling requirements for the major and minor.

Department of Psychology

Chair: Carl E. McFarland, Jr.
Vice Chair and Director of Undergraduate Studies: David C.Schwebel
Faculty: Amthor, Bailey, Ball, Biasini, Boggiano, Clay, Cook, Cox, Crowe, Gampher, Griffith, Guest, Hodgens, Hopkins, Kana, Knight, Linney, Milby, Mrug, Randich, Robinson, Schwebel, Sloane, Taub, Tucker, Uswatte, Vuchinich, Weller, Wright
Secondary and Adjunct Appointments: Allison, Austin, Bair, Bartolucci, Beaton, Beidleman, Bolland, Bradley, Dreer, Gamlin, H. Griffith, Hablitz, Harrell, Holt, G. Jackson, Johnson, Kang, Keyser, Klapow, Kohler, Lichstein, Loop, Marson, Meador-Woodruff, McMahon, Meredith, Owsley, Norton, Novak, Peacock, Person, Porter, Pozzo-Miller, Richards, Roth, Schumacher, Shealy, Siegfried, Sweatt, Theibert, Tolbert, J. Tucker, Vance, Wadley, Wyss

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) or 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.psy.uab.edu/PYundergrad/index.html.

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 upper level (300 and above) courses completed more than 12 years prior to graduation.

Major

To qualify for a B.S. degree in psychology, students must complete a minimum of 38 semester hours of courses in psychology as listed below and the requirements in another department for a minor. A grade of C or better is required in the 38 semester hours of psychology.

MAJOR REQUIREMENTS FOR PSYCHOLOGY

Requirement	Fulfilled By:	Hrs.
Grade and Residency Requirement	A grade of C or better is required in all Psychology courses. Transfer students must earn at least 15 hours of required courses at the 300-level or higher at UAB including 9 hours of 400 level.	-
Biology, Chemistry or Physics	Select six hours in **Biology (BY)**, **Chemistry (CH)**, or **Physics (PH)** courses. BY 107, BY 111, ENV 108, CH 100, and PH 100 may not be taken to satisfy this requirement. These hours are satisfied with successful completion of the AREA III science requirement. *Note: Completing any of the Biology, Chemistry or Physics courses in Area III may also*	0
General Requirements	Take all of the following courses: **PY 101 or PY 201 PY 212 PY 214 PY 217** **PY 218 PY 253 PY 315 PY 490** *Note: Completing **PY 101 or PY 212** will automatically satisfy three hours of Core Curriculum Area IV.*	23
Advanced Coursework	Select **TWO** of the following courses: **PY 303 PY 325 PY 353 PY 363 PY 380** **PY 312 PY 335 PY 354 PY 370 PY 390** **PY 313 PY 350 PY 361 PY 372**	6
Psychology Electives	Select 9 hours in **Psychology (PY)** courses. Six hours must be taken at the 400-level and 3 hours must be taken at the 300 level or above. **PY 396**, **PY 397** and **PY 398** may not be used to fulfill more than three hours of this requirement. *Note: Completing **PY 213** or **PY 319** will automatically satisfy School-Wide Require-*	9
	Total Major Requirements:	**38**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	A minor is required for this degree.
General Electives	Students must take general electives to reach the 120 semester hour requirement.

Students are encouraged to participate in 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 requirements. Students preparing to attend graduate school in psychology are strongly encouraged to get involved in faculty research projects and develop a more extensive 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; Room 415, Campbell Hall, (205) 934-3850, kklyce@uab.edu.

MINOR REQUIREMENTS FOR PSYCHOLOGY

Requirement	Fulfilled By:	Hrs.
Grade & Residency	A C or better is required in all courses applied to the minor. At least six hours at the	-
Introductory Psychology course	Take the following course: **PY 101** *Note: **PY 101** may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.*	3
Advanced Psychology	Select nine hours from **Psychology (PY)** courses at the 300 level or above. **PY 396**,	9
Psychology Electives	Select six hours from **Psychology (PY)** courses. **PY 396**, **PY 397** and **PY 398** may	6
	Total Minor Requirements:	**18**

Honors Program in Psychology

Purpose

The Psychology Honors Program enhances the preparation of undergraduate students for graduate study in psychology or a career in a related profession by providing an in-depth study of the major areas within psychology and an opportunity to conduct research.

Eligibility

Criteria for entering freshmen are:

- a completed application form;
- an interview with the Director of the Psychology Honors Program; and
- a minimum 3.50 GPA in high school academic subjects.

Criteria for students already enrolled at UAB or transfer students are:

- a completed application form;
- an interview with the Director of the Psychology Honors Program;
- a minimum GPA of 3.50 in psychology coursework; and
- an overall GPA of 3.50 or above.

Requirements

Students in the Psychology Honors Program complete 53 semester hours of coursework. These include all requirements for the psychology major as well as the Psychology Honors Program. No minor is required for psychology honors students. The 53-semester-hour B.S Honors program in psychology requires students to complete:

Requirements	Fulfilled By	Hrs.
Introduction to Psychology	Select one of the following: **PY 101 PY 201**	**3**
Developmental Psychology	Take the following course: **PY 212**	**3**

Statistics	Take the following courses: **PY 214 PY 217**	**4**
Psychology	Take the following courses: **PY 218 PY 253 PY 315 PY 398** **PY 399 PY 499**	**21**
Psychology Elective	Select three of the following courses **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 PY 390**	**9**
Practicum	Select one of the following: **PY 396 PY 397** *Note: Minimum of one credit hour*	**1**
400 level electives	9 hours at the 400 level or above	**9**
300 level electives	Any PY course at the 300 level or above	**3**
	Total Honors Requirements:	**53**

Transfer students must complete at least 18 semester hours of advanced psychology (PY 300+) at UAB.

In addition, the B.S. in psychology requires a minimum of 6 semester hours in biology, chemistry, or physics. BY 107, BY 111, ENV 108, CH 100, and PH 100 may not be used to satisfy this requirement. Other biology, chemistry, and physics courses that satisfy the Area III Core Curriculum requirement also satisfy this requirement of the major.

Benefits

Participation in the Psychology Honors Program provides an enriched learning environment for the student interested in pursuing a career in psychology or a related profession. The in-depth study of contemporary psychology together with the opportunity to conduct empirical research with a renowned, research-oriented faculty provides students with a strong foundation in the behavioral and social sciences. Students who complete the program will graduate "With Honors in Psychology."

Contact

For more information and application for admission to the Honors Program in Psychology, see the http://www.psy.uab.edu/PYundergrad/index.html. You can also contact the honors program director at the Department of Psychology, Campbell Hall, Room 415, Birmingham, AL 35294-1170; Telephone (205) 934-3850; E-mail ecook@uab.edu.

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 developmental psychology. Although the Master of Science (M.S.) degree is awarded as an intermediate degree in the Ph.D. program, 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, Room 511, Hill University Center, 1400 University Boulevard, Birmingham, AL 35294-1150.

Course Descriptions
Psychology (PY)

If sections of PY 214, 217, or any PY course at the 300 or 400 level are full, enrollment may be restricted to Psychology majors, particularly those with cumulative GPAs above 3.0.

PY 101 - Intro to Psychology - 3
Application of scientific method to behavior. Areas of psychology including learning, motivation, perception, physiological, comparative, personality, abnormal, social, clinical, child development, and individual differences (Core Area IV).

PY 107 - Psychology of Adjustment - 3
Adaptive behavior; theories, research, and personal applications relevant to desirable behavior patterns; interpersonal skills and self-control techniques.

PY 108 - Human Sexuality - 3
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. *Prerequisite:* PY 101

PY 109 - Drugs and Human Behavior - 3
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 - Intro to Forensic Psychology - 3
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 Intro to Psychology - 3
Advanced seminar in scientific study of behavior and cognitive processes. Prerequisite: permission of Director of Undergraduate Studies. (Satisfies Core Area IV Requirement)

PY 212 - Developmental Psychology - 3
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. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better (Satisfies Core Area IV Requirement) *Effective Spring Semester 2009*

PY 213 - Cross-Cult Persp on Child Dev - 3
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. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 214 - Elem Stats Methods and Design - 3
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. *Prerequisite: (*MA 102 or MA 105 or MA 110 or MA 125 with a grade of D or better) and (PY 101 with a grade of D or better or PY 201 with a grade of D or better) *Effective Spring Semester 2009*

PY 217 - Elem Stats Methods/Design Lab - 1
Use of computers in statistical analysis of psychological research data. Laboratory component of PY 214. Required for all psychology majors. *Prerequisites:* CS 101 or equivalent and MA 102 or MA 110 and PY 214 (may be concurrent enrollment)

PY 218 - Abnormal Psychology - 3
Research-oriented study of different types of maladaptive behavior, including symptoms, development, classification, and treatment. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 220 - Contemporary Issues in Psych - 1 to 3
Issues of current interest in psychology. *Prerequisites:* PY 101

PY 253 - Brain Mind and Behavior - 3
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. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 302 - History and Systems of Psych - 3
Historical origins and development of major approaches to psychology. *Prerequisite:* PY 101

PY 303 - Intro to Cognitive Science - 3
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. *Prerequisite:* PY 101

PY 305 - Medical Psychology - 3
Psychological methods applied to health problems. Development of medical problems, psychological/behavioral problemsPY 101 with a grade of D or better or PY 201 with a grade of D or better PY 101 *Effective Spring Semester 2009*

PY 312 - Adv Developmental Psychology - 3
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. *Prerequisite:* PY 212

PY 313 - Intro to Language Development - 3
Children's acquisition of the ability to speak and understand their native language. Learning to read and write. Language abilities in special populations (e.g., the hearing-impaired, mentally-retarded, elderly individuals). Communication abilities in nonhumans. *Prerequisites:* PY 212 or PY 213

PY 315 - Methods Psychological Research - 4
Fundamentals of experimentation with psychological phenomena. Conceptual and practical exploration of problem definition and hypothesis formation; observation, definition, and measurement; design and control of experiments for valid causal inference; quasi-experimental designs; generalization and ecological validity; explanation and interpretation of results; scientific communication. *Prerequisites:* PY 214 and PY 217

PY 318 - Child and Adolescent Abnormal - 3
Manifestations, causes, and treatment of psychological disorders from infancy through adolescence. Developmental and research perspective on these disorders with clinical and social implications. *Prerequisites:* PY 212 or PY 218

PY 319 - Psychopathology and Culture - 3
Cultural differences with respect to types of behavior viewed as abnormal and how such behaviors are classified and treated. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 320 - Contemporary Issues in Psych - 1 to 3
Issues of current interest in psychology. *Prerequisite:* PY 101

PY 325 - Clinical Child Psychology - 3
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 212 or PY 213

PY 326 - Industrial/Organizational Psy - 3
Psychological methods applied to people at work. Selection, placement, performance appraisal, training, attitude measurement, work motivation, leadership, industrial safety, and human performance. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring 2009*

PY 327 - Comparative Organ Psych - 3
Responses of organization members to organizational structures and processes as function of cultural differences. Attitudes, production, decision making, and organizational commitment.

PY 330 - Sport Psychology - 3
Psychological factors in athletic performance. Psychological characteristics of successful athletes; anxiety, arousal, motivation, attention, concentration, attribution, cognition, and imagery. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 335 - Motivation and Emotion - 3
Psychobiological basis of eating, drinking, sleep, sex, and aggression, and the role of emotion and reinforcement in shaping these behaviors. Underlying mechanisms involved in these motivated behaviors from basic biological need (homeostasis) to abnormal conditions as occurs in eating and sleep disorders, genetic anomalies, drug addiction and violence. *Prerequisite:* PY 101

PY 350 - Personality/Intellect Assess - 3
Measurement of personality and other psychological characteristics through psychological tests. Selection, administration, and interpretation of psychological tests. *Prerequisite:* PY 214

PY 353 - Behavioral Neuroscience - 3
Neurobiological basis of behavior. Central nervous system mechanisms that mediate processes such as learning, motivation, sensation, speech, and emotional behavior. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 354 - Autism: Brain and Cognition - 3
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. *Prerequisite:* PY 101 and PY 253

PY 361 - Psychology of Learning - 3
Issues of learning in terms of current theoretical positions. Classical conditioning, instrumental conditioning, forgetting, role of motivation, and transfer of training. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 363 - Cognitive Psychology - 3
Human cognitive functioning. Selective attention, information processing, models of learning, memory, perception, and free and structured thought processes. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 370 - Personality - 3
Comparison of major theories of personality, including philosophy of human nature; structure, dynamics, and development of personality. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 372 - Social Psychology - 3
Major theories and research in social psychology. Social perception and attribution, behavior in interpersonal relationships, and group influences on individual behavior. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 375 - Philosophy of Mind - 3
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
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. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 380 - Perception - 3
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. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 390 - Animal Behavior - 3
Theoretical and applied aspects of animal behavior. Learning and natural selection, evolutionary stable strategies, reasoning, mimicry, perception and intelligence. *Prerequisite:* PY 101 with a grade of D or better or PY 201 with a grade of D or better *Effective Spring Semester 2009*

PY 396 - Teaching Practicum in Psych - 1 to 3
Teaching experience in psychology courses, supervised by a faculty member. Student must have previously taken the course for which the student will work within. *Prerequisite:* Permission of Director of Undergraduate studies or PY Advisor

PY 397 - Community-Based Practicum in Psychology - 1 to 6
Community work in various supervised settings such as Crisis Center, Department of Human Resources, etc. *Prerequisite:* Permission of Psychology Advisor. (Pass/Fail)

PY 398 - Research Practicum in Psychology - 1 to 6
Project or research activity supervised by faculty. Cannot be taken Pass/Fail. *Prerequisite:* permission of Director of Undergraduate Studies or PY Advisor

PY 399 - Psychology Honors Seminar - 1
Seminar for honors students. Conduct of special project (PY 398) required. *Prerequisite:* permission of Director of Psychology Honors Program.

PY 402 - History and Systems of Psychology - 3
Historical origins and development of major approaches to psychology. *Prerequisite:* PY 315

PY 405 - Biofeedback/Meditat/Self-Reg - 3
History and current applications of biofeedback, meditation, and relaxation techniques. *Prerequisite:* PY 315

PY 407 - Pathology of Memory - 3
Memory disorders from standpoint of experimental psychology and neuropsychology. Amnesic syndrome, dementia, transient memory disorders, Alzheimer's disease, and epidemiology and public health issues. *Prerequisite:* PY 315

PY 411 - Cognitive Development - 3
Development of memory, perception, learning, and thinking in children. *Prerequisites:* PY 212 and PY 315

PY 412 - Social Development - 3
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 and PY 315

PY 413 - Psych of the African-Amer Chld - 3
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:* (AAS 320 or PY 212) and PY 315

PY 414 - Perceptual Development - 3
Changes in sensory capacities from birth to old age, including all sensory modalities. Life-span development of higher-level perceptual processes, including development of perceptual constancies and intermodal perception. *Prerequisites:* PY 212 and PY 315

PY 415 - Mental Retard/Dev Disabilities - 3
History, causes, treatment/education, behavioral interventions, and family issues related to mental retardation and other developmental disabilities. Psychologist as member of interdisciplinary treatment team. *Prerequisites:* PY 212 and PY 315

PY 416 - Adv Methods in Psych Research - 3
Method for understanding psychological research; its strengths, weaknesses, and conclusions. How best psychological studies are designed and how one experiment leads to another. *Prerequisite:* PY 315

PY 418 - Psychotherapy/Behavior Change - 3
Different therapeutic approaches and issues relating to their effectiveness. Principles of behavior modification. *Prerequisites: (*PY 218 or PY 319) and PY 315

PY 420 - Contemporary Issues in Psychology –1 to 3
Issues of current interest in psychology. *Prerequisites:* PY 315

PY 423 - Abnormal Child Development - 3
Current research and theories related to aberrations of normal development processes, including autism, childhood schizophrenia, and other disorders of childhood. *Prerequisites:* (PY 212 or PY 218) and PY 315

PY 425 - Psychology of Aging - 3
Age changes in human cognition and behavior. Sensory processes, memory, intelligence, physiology and health, psychopathology, and life-span development and adjustment. *Prerequisites:* PY 212 or PY 315

PY 430 - Psychology of Chronic Pain - 3
Major empirical and theoretical contributions to causes, evaluation, and treatment of chronic pain. *Prerequisites:* PY 315

PY 431 - The Dynamics of Pain - 3
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 315 and PY 353

PY 441 - Princ Cell Neurosci Mod I - 3
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).

PY 442 - Princ Cell Neurosci Mod II - 3
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.

PY 443 - Princ Cell Neurosci Module III - 3
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).

PY 444 - Princ Cell Neurosci Module IV - 3
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 450 - Acquisition of Language - 3
Communication development in infancy, development of speech perception and production, grammatical and semantic development, acquisition of literacy, individual differences and cross-cultural variation in language acquisition, and use of language in social context. *Prerequisites:* PY 212 and PY 315

PY 453 - Adv Behavioral Neuroscience - 4
Neurobiological and psychological research on neural systems that control behavior will be studied. Topics will include synaptic communication, sensation and perception, movement, genetic influences on behavior, motivation, emotion, learning, psychopathology, and brain plasticity. *Prerequisites: (*PY 335 or PY 353 or PY 380) and PY 315

PY 455 - Psychology of Eating Disorders - 3
Genetic, neurochemical, developmental, and sociocultural determinants of anorexia nervosa, bulimia, binge-eating disorder, and obesity. Diagnostic, preventive, and treatment strategies. Provocative recent findings from animal research. Unusual human eating behaviors, including patterns manifested in brain trauma and genetic disorders, craving, ingestion of non-nutritive substances, and cannibalism. *Prerequisites:* (PY 335 or PY 353) and PY 315

PY 457 - Human Psychophysiology - 3
Physiology, instrumentation, and methodology of psychophysiological measurements, including autonomic and central nervous systems. Consideration of basic and applied research. *Prerequisite:* PY 315

PY 461 - Research Sem Cognitive Science - 1
Current research, theories and controversies in cognitive science. Seminar topic changes each term. *Prerequisite:* PY 315

PY 462 - Overview of Cognitive Science - 3
Cognitive Science is the interdisciplinary study of mind and intelligence. This course is a comprehensive overview of the historical and conceptual foundations of cognitive science. No previous courses in cognitive science are needed to participate. *Prerequisites:* PY 315 and PY 361 or PY 363

PY 463 - Cognitive Neuroscience - 3
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 315 and PY 353 or PY 363 or PY 380

PY 480 - Sensory Processing Perception - 3
Neural coding underlying perception. Sequence of transformation in sensory processing hierarchy from receptors to complex cortical areas, relationship to cognitive functioning, and recent progress in machine vision and perception. *Prerequisites:* PY 315 and PY 353 or PY 363 or PY 380

PY 488 - Pediatric Psychology - 3
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 interaction. *Prerequisites:* PY 212 and PY 315

PY 490 - Psychology Capstone - 3
The capstone course 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 related to a 400-level Psychology seminar, in which they must be concurrently enrolled. 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. Concurrent enrollment in a 400-level Psychology course is required. *Prerequisite:* PY 315

PY 499 - Psychology Honors Thesis - 2
This capstone course represents the culmination of the undergraduate major in Psychology for participants in the Honors Program in Psychology. Students complete their honors thesis with guidance from their research mentor and the honors program Director. Students defend their thesis in the Psychology Honors Seminar and also present their research at a conference or in another public venue. Prerequisites: Participation in the Honors Program in Psychology, and completion of 3 semesters of PY399, one of which may be concurrently enrolled. *Prerequisite:* PY 399

Department of Sociology

Chair: Mark E. LaGory
Faculty: Austin, Borch, Clair, Cockerham, Cotten, Drentea, Hamilton, Hwang, Needham, Ritchey, Trigg, Wallace, K. Wilson

The Department of Sociology offers two approaches for a major in sociology: (1) general sociology and (2) social psychology concentration in sociology. Minors are offered in medical sociology, social psychology, and general sociology.

General sociology involves the study of group dynamics and its impact on human populations and individuals. 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 health and 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 in sociology 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. Second, it offers valuable preparation for professional careers in the social services.

Third, it serves as useful pre-professional training for careers such as health professions, law, business, education, government, and even architecture. Finally, the program helps prepare students for graduate study in sociology and public health.

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.

MAJOR REQUIREMENTS FOR SOCIOLOGY

Requirement	Fulfilled By:	Hrs.
Grade and Level Requirement	A grade of C or better is required in all Sociology courses. SOC 400 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.	-
General Requirements	Take all of the following courses: **SOC 400 SOC 410 SOC 100**	11
Theory Requirement	Select one of the following courses: **SOC 415 SOC 405 SOC 407**	3
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 Major Requirements:	**35**

ADDITIONAL REQUIREMENTS

Requirement	Fulfilled By:
Minor	A minor is required for this degree.
General Electives	Students must take general electives to reach the 120 semester hour requirement.

General Sociology Minor

Requirement	Fulfilled By:	Hrs.
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.	-
Introductory Sociology courses	Take the following course: **SOC 100** *Note: **SOC 100** may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.*	3
Sociology Electives	Select 15 hours from **Sociology (SOC)** courses, with at least nine hours at the 300-level or above. *Note: **SOC 245** 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.*	15
	Total Major Requirements:	18

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.

Requirement	Fulfilled By:	Hrs.
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.	-
Required Courses	Take all of the following courses: SOC 280 SOC 283 SOC 480	9
Social Diversity and Inequality	Select one of the following courses: SOC 220 SOC 250 SOC 385 SOC 415 SOC 469	3

Health-Related Issues and Problems	Select one of the following courses: SOC 240 SOC 370 SOC 383 SOC 456 SOC 476	3
Elective	Select one of the following courses: SOC 135 ANTH 380 PY 218 SOC 370 SOC 383 SOC 240 ANTH 435 PY 305 SOC 455 SOC 456 SOC 490 (Special Topics – 1 credit hour) Must choose three of the following: Minority Women's Health, Women's Health, Women and Violence, Human Trafficking, Adolescent Pregnancy, Women and Reproduction, Women and Sexuality	3
	Total Minor Requirements:	**18**

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 promotes independent thinking, 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); and
- 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, 460H1 Heritage Hall , Birmingham, AL 35294-1152; Telephone: (205) 934-3307

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 400 must be completed at UAB. A total of 9 hours at 400+ must be taken in residence at UAB. Transfer students must earn at least 12 semester hours in residence. A grade of C or better is required in all courses applied toward the major, including transfer courses. The 35-semester-hour B.A. program in social psychology is distributed as follows:

MAJOR REQUIREMENTS FOR SOCIOLOGY WITH SOCIAL PSYCHOLOGY CONCENTRATION

Requirement	Fulfilled By:	Hrs.
Grade Requirement	A grade of C or better is required in all Social Psychology courses. SOC 400 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.	-
General Requirements	Take all of the following courses: **SOC 100** **SOC 120** **SOC 410** **PY 101** **SOC 400** **PY 372**	20
Theory Requirement	Select one of the following courses: **SOC 415** **SOC 405** **SOC 407**	3
Psychology Elective	Select one of the following courses: **PY 212** **PY 218** **PY 319**	3
Sociology Electives	Select three of the following courses, with at least two at the 300-level or higher. **SOC 130** **SOC 280** **SOC 340** **SOC 455** **SOC 480** **SOC 135** **SOC 283** **SOC 383** **SOC 456** **SOC 220** **SOC 285** **SOC 385** **SOC 457** **SOC 240** **SOC 323** **SOC 420** **SOC 469**	9
	Total Major Requirements:	**35**

MINOR REQUIREMENTS FOR SOCIAL PSYCHOLOGY

Requirement	Fulfilled By:	Hrs.
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.	-
Introductory Sociology courses	Take both of the following courses: **SOC 100** **SOC 120** *Note: **SOC 100** may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.*	6
Social Psychology Electives	Select four of the following courses, with at least three at the 300-level or above: **PY 212** **SOC 130** **SOC 283** **SOC 385** **SOC 469** **PY 218** **SOC 135** **SOC 285** **SOC 405** **SOC 480** **PY 319** **SOC 220** **SOC 323** **SOC 420** **PY 372** **SOC 240** **SOC 340** **SOC 456** **SOC 280** **SOC 383** **SOC 457** *Note: **PY 212** may also be eligible to count toward Core Curriculum Area IV; check the Core Curriculum for your particular major.*	12
	Total Minor Requirements:	**18**

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 promotes independent thinking, 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;
- a junior or senior level standing (admittance to Honors Program must take place before August 1); and
- a 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, 237 Ullman Building, Birmingham, AL 35294-3350; Telephone (205) 934-3307

Graduate Program

For information on the graduate program in sociology, please consult the Department of Sociology or the UAB Graduate School Catalog.

Course Descriptions
Sociology (SOC)

SOC 100 - Intro to Sociology - 3
Collective human social behavior, its forms and consequences; inequality, group membership, social institutions and interpersonal relationships; how humans are affected by other humans.

SOC 120 - Intro to Social Psychology - 3
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 Relat and the Family - 3
Contemporary trends of marriage, cohabiting and partnerships; male-female relations among singles; 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.

SOC 135 - Human Sexuality - 3
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
Change as ever-present feature of contemporary world; comparative analysis of impact of change on societies in advanced industrial world and Third World; application and critiques of social change theories and their relevance for societies throughout world; human consequences of social change.

SOC 230 - Family and Kinship - 3
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.

SOC 234 - Immigration Tran & Diasporas - 3
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.

SOC 235 - Sociology of Religion - 3
Social aspects of individual religious experience; organization of churches and sects; relationships among religion, science, and other institutions.

SOC 240 - Family Conflict and Violence - 3
Origins, manifestations, effects, controls, and rehabilitation aspects of family conflict and violence.

SOC 244 - Sociology of Cinema/Photo - 3
Major sociological theories and social issues illustrated through cinema and photography.

SOC 245 - Contemporary Social Problems - 3
How certain social conditions come to be seen as problems; why problems persist and how they can be changed; how conflict between groups and social movements contributes to developing and solving social problems; empirical overview of problematic conditions.

SOC 246 - Cinema and Photography - 3
Theoretical and methodological advancement of visual sociology (use of still photographs, film, video, and electronically transmitted images) as a way of examining and understanding society, culture, and social relationships.

SOC 250 - Race and Ethnic Relations - 3
Various ethnic and racial groups, with emphasis on theory and research on intergroup relations; internal structure, culture, and experiences of ethnic groups.

SOC 260 - Sociology of Work - 3
Social organization of occupations; role and function in modern industrial society; gender and race; professionalism, occupational choice, and careers and stress; labor force composition, unemployment, and retirement. *Effective Spring 2009 SOC 260 is replaced by SOC 360.*

SOC 275 - Urban Sociology - 3
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 - Cities of the World - 3
Historical and contemporary patterns of world urbanization and their consequences; world system of cities; core-periphery relations and development in Third World; analysis of urban life, urban planning, and community structures in various world regions; case studies of selected world cities such as Moscow, Beijing, Baghdad, Tokyo, and New York.

SOC 280 - Health and Society - 3
Sociocultural definitions and responses to sickness; organization of health and medical institutions; health professionals; history of and social change in health-care delivery in U.S.

SOC 282 - Minority Health - 3
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
This course focuses on mental health and illness in its social context, by studying the social construction of definitions of mental health and illness, examining the interrelationships among social structure, social factors, stress, coping resources, and other factors that are rooted in the social worlds in which we exist, and through examinations of the experiences of mental health and illness.

SOC 285 - Introduction to Aging - 3
Aging experience in modern world. Theories of aging, dimensions of aging, everyday concerns associated with aging, and future prospects of aging. May include some guest lectures by professionals in the field and other faculty in gerontology.

SOC 290 - Special Topics in Sociology - 1 to 3
Prerequisites: SOC 100

SOC 292 - Special Topics in Sociology - 1 to 3
Prerequisites: SOC 100

SOC 293 - Special Topics in Sociology - 1 to 3
Prerequisites: SOC 100

SOC 294 - Special Topics in Sociology - 1 to 3
Prerequisites: SOC 100

SOC 295 - Special Topics in Sociology - 1 to 3
Prerequisites: SOC 100

SOC 315 - The Sociology of Terrorism - 3
Examination of the social and social psychological explanations of the phenomenon, with particular emphasis given to the theories of social construction.

SOC 316 - Popular Culture - 3
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. *Prerequisite:* SOC 100

SOC 317 - Social Impacts of Comm and IT - 3
How technology impacts life and is a product of social, economic, political, cultural and technological forces. Takes a social scientific examination of communication and information technologies, with particular focus on the Internet and its applications that individuals use to gather, distribute, and convey information. How technologies are embedded in a myriad of social institutions and social processes. *Prerequisite:* SOC 100

SOC 318 - Passion in Action: US Soc Mvmt - 3
Theoretical and substantive examination of social movements, including reform, status, equality, and new social movements. *Prerequisite:* SOC 100

SOC 319 - Sociology of The South - 3
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. *Prerequisite:* SOC 100

SOC 320 - Sociology Through Fiction - 3
Sociological theories and concepts as illustrated in contemporary fiction. Classes will vary in terms of the fictional genre explored. *Prerequisite:* SOC 100

SOC 323 - Social Structure/Personality - 3
Interaction of social structure and personality; motivation, cognition, and impact of family, social class, and other institutions on personality development and mental illness. *Prerequisite:* SOC 100

SOC 325 - Russian Society and Culture - 3
Examines culture, traditions, religions, mentality, and especially social structure and personality of Russian society and culture--it's past, present and future. Examines Russia's youth, corruption, reform crumbling, mob violence, alcoholism, prostitution, drugs, and growing problems with disease, decreasing life expectancy, anti-Semitism etc. *Prerequisite:* SOC 100

SOC 327 - Sociology of Organization - 3
Organizations as bureaucracies; authority, decision making, goals, communication, and informal relationships in organizations.

SOC 335 - Human Sexuality - 3
Cross-cultural and historical variations in sexual standards, attitudes, and behaviors and relationship to social structure; theories of sexuality and relationship to cultural contexts and changing urban-industrial environments. *Prerequisite:* SOC 100

SOC 336 - Sport and Society - 3
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. *Prerequisite:* SOC 100

SOC 340 - Deviance and Control - 3
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. *Prerequisite:* SOC 100

SOC 370 - Population Problems - 3
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. *Prerequisite:* SOC 100

SOC 385 - Social Psychology of Aging - 3
Behavioral and structural relationships of aged population in America. Aging and interpersonal behavior, aging and social structure, and aging and social intervention. *Prerequisite:* SOC 100

SOC 400 - Research Methods - 4
Fundamentals of inquiry in social sciences; problems of definition, concept formation, and hypothesis testing; measurement, validity, reliability, and sampling; data-gathering techniques, basic statistical tools, and research design; use of computers and computer software packages. *Prerequisites:* SOC 100 and SOC 410

SOC 400L - Research Methods Lab - 0

SOC 404 - Advanced Survey Methods - 3
Current best practices in survey research and applied experience in designing, administering, and analyzing data from surveys.

SOC 405 - Symbolic Interaction - 3
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. *Prerequisite:* SOC 100

SOC 407 - Dev of Sociological Theory - 3
Social thought from earliest classic thinkers to current sociological models; interrelationship between sociological theory and logic of social science; critical analysis of contemporary sociological theories. *Prerequisite:* SOC 100

SOC 410 - Social Statistics - 4
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. *Prerequisites:* MA 102 or MA 110

SOC 410L - Social Statistics Lab - 0

SOC 415 - Social Stratification - 3
Inequality of wealth, prestige, and power distribution examined as caste-class differences; effect of stratification on individuals and their behavior, lifestyle, and life chances. *Prerequisite:* SOC 100

SOC 416 - Sociology of the South - 3
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. *Prerequisite:* SOC 100

SOC 417 - Political Sociology - 3
Political sociology traces the relationships between political ideas, government structures, social life, and the never-ending efforts of individuals and groups to modify these relationships to achieve their best notions of the good life.

SOC 420 - Sociology of Emotion - 3
A critical analysis of sociological approaches and issues in the study of emotions including; emotional socialization and control, emotion work, emotion management, feeling restless, and the relationship of macro, meso and micro social structures and processes to emotions. *Prerequisite:* SOC 100

SOC 444 - Visual Sociology - 3
Theoretical and methodological uses of cinema and photography in sociological inquiry; visual media as unique representations of society and sociological processes. *Prerequisite:* SOC 100

SOC 450 - Minority Peoples - 3

SOC 455 - Minority Aging - 3
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. *Prerequisite:* SOC 100

SOC 457 - The Aging Family - 3
Changes in family structure; status of aging in family in various societies; intra- and inter-generational relations; family-related role transitions. *Prerequisite:* SOC 100

SOC 459 - Aging: Policy and Programs - 3
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
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. *Prerequisite:* SOC 100

SOC 470 - Urban Ecology - 3
Spatial distribution of social, demographic, and physical factors in urban environment; distribution of population by age and race; competition for land between businesses and home owners; location of physical features such as cemeteries and night-clubs. *Prerequisite:* SOC 100

SOC 472 - Homelessness: Causes/Consequences - 3
Current problems of homelessness in U.S. history, health, mental health, poverty, public attitudes, and government policy. *Prerequisite:* SOC 100

SOC 480 - Medical Sociology - 3
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. *Prerequisite:* SOC 100

SOC 482 - Gender and Health - 3
Sociological, psychological and biological explanations of gender differences in mental and physical health across the life course.

SOC 488 - Sociological Practice - 3
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. *Prerequisite:* SOC 100

SOC 490 - Independent Study: Sociology - 1 to 3
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. *Prerequisite:* SOC 100

SOC 491 - Independent Study: Sociology - 1 to 3
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. *Prerequisite:* SOC 100

SOC 492 - Independent Study: Sociology - 1 to 3
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. *Prerequisite:* SOC 100

SOC 493 - Independent Study: Sociology - 1 to 3
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. *Prerequisite:* SOC 100

SOC 494 - Independent Study: Sociology - 1 to 3
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. *Prerequisite:* SOC 100

SOC 495 - Independent Study: Sociology - 1 to 3
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. *Prerequisite:* SOC 100

SOC 498 - Sociology Honors Seminar - 3
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
Sociology Honors Thesis. *Prerequisite:* SOC 498

UAB Honors Academy

University Honors Program

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.

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 "Ethographic 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, and 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, or 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."

Who Should Apply

Any student entering or already enrolled at UAB is eligible to apply for the University Honors Program. Although most students entering the program are full-time freshmen, part-time students are also eligible, and students may enter the program as sophomores or juniors. Non-traditional students are encouraged to apply. Honors students are selected on the basis of the following criteria:

- academic ability, as indicated by high school or previous college grades;
- creativity or talent—in science, music, art, drama, leadership, etc.;
- intellectual promise, as indicated by standard aptitude and/or achievement tests;
- recommendations of knowledgeable instructors;
- competence in grammar, English composition, and mathematics; and
- evidence of any of the above as disclosed in a personal interview.

Any student who has a genuine interest in the kind of education that the University Honors Program provides should apply, even if the student may not feel that he or she has demonstrable evidence of the above criteria. There are no rigid minimum requirements for being accepted into the University Honors Program, which is intended to attract bright, curious, dedicated students who can both profit from and contribute to an intensive learning experience. Such students cannot always be identified on the basis of any objective set of criteria; therefore, all applicants will be given careful consideration on the basis of whatever evidence they present, both in a written application and in a personal interview.

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.

Students interested in applying for admission to the University Honors Program should go to the UAB Honors Academy Website at: http://www.uab.edu/honorsacademy. There you will find an application form that can be filled out on-line. Students interested in the University Honors Program should just check the UHP box. Students can apply to more than one university-wide honors program but only participate in one. A student in the University Honors Program can however be a member of the EMSAP, EOSAP, or EDSAP early-acceptance programs. If you have questions about the University Honors Program in particular please feel free to call (205) 934-8733 or email (sloane@uab.edu) the Director, Dr. Mike Sloane. General inquiries should be address to the Program Coordinator at (205) 934-3228 or e-mail honorsprogram@uab.edu. Priority consideration will be given to applications received by December 15 but we will accept applications up till January 1. Students must apply to UAB separately and are encouraged to do so by November 1 to be automatically considered for scholarships.

Science and Technology Honors Program

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 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 Science and Technology Honors Program, a student is well prepared for graduate and doctoral study

Benefits

Students in the Science and Technology Honors Program work closely with research faculty and have the opportunity to 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. During the second two years, students work closely with a faculty mentor on an individualized project, learning about research through apprenticeship. Science and Technology Honors students are encouraged to attend national conferences and to publish their research in scientific journals.

Students who successfully complete the four year Science and Technology Honors Program are guaranteed a two-year scholarship for any UAB doctoral program to which they are admitted. In addition, Science and Technology Honors students can earn graduate credit, providing an advantage when pursuing an advanced degree. In addition, students receive priority registration for all of your courses over the four years in the program. Some of these courses will be tailored for program members. For example, Science and Technology Honors students focus on scientific communication and technical writing in a special section of English Composition II. The program is a close knit community with a maximum of 50 undergraduate students each year. The small number encourages collaboration among students, interaction with faculty, and sharing of ideas.

Science and Technology Honors Facilities

The Science and Technology Honors Facilities will be moving to the 5th floor of Heritage Hall. Students have full 24-hour access to the facilities where there is a state of the art computer lab. A kitchen, individual study space, and conference rooms are available for Science and Technology Honors students, and along with a relaxing study lounge area to meet and chat.

Science and Technology Honors Coursework

The academic portion of the Science and Technology Honors Program builds upon UAB's strengths in science and technology research. Special interdisciplinary courses 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, complex information systems, engineering, neuroscience, psychology, physics, and more. In their Research Approaches 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. Science and Technology Honors coursework also integrates seamlessly with honors programs in specific majors.

The Science and Technology Honors 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, most Science and Technology Honors students will both publish a scientific paper and present at a national conference before graduating from UAB. Graduation with Honors in Science and Technology does not, however, require that the Honors Thesis be published or presented at a conference.

Students in the Science and Technology Honors Program take 30 hours of Honors coursework, which includes 12 hours of Science and Technology Honors courses and at least 8 hours of Independent Study under the direction of a faculty mentor to complete their Honors Thesis research. Honors versions of core courses have been developed and contribute to the 30 hours of honors credit required.

Each student in the program takes the following Science and Technology Honors Program coursework during their first two years in the program to prepare for their independent research experience.

Introductory Seminar. (Fall semester Freshman Year; 1 credit hour). Principles of research design are illustrated by faculty presentation of their research programs. Discussion of basic concepts of scientific methodology will be woven around presentations by faculty from diverse disciplines.

Interdisciplinary Seminar. (Fall semester Sophomore Year; 3 credit hours). Team-taught course with faculty from several disciplines addressing how a complex problem is approached by multiple disciplines. This course will illustrate the synergy achieved by interdisciplinary analysis of problems.

Research Approaches I and II. (Spring semester Freshman and Sophomore Years; 3 credit hours each). Visit research laboratories to observe and learn research methodologies used by scientists in diverse disciplines. Students can elect brief (four week) apprenticeships in research laboratories or outreach settings.

Statistics and Design Overview, (3 credit hours). Introduction to principles of research design and statistical analysis, including a statistics laboratory for hands on experience.

Science and Technology Honors research: (8 or more hours).

Student Activities

Science and Technology Honors students contribute to the direction of the program through participation in student committees and active dialogue with the director. Student committees include Scientific Journal Club and Program Meetings, New Student Orientation and Recruiting, Social Activities, Community Outreach, Newsletter, Website Design, and Program Archives.

Continuation in the Program

Science and Technology Honors students are required to maintain a 3.0 average UAB GPA in their undergraduate coursework through graduation. If their GPA falls below the 3.00, the student will have one semester to raise his or her average to at least 3.0 in order to remain in the program.

Who Should Apply

The Science and Technology Honors Program is best fitted to 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. Science and Technology Honors students typically have a grade point

average of 3.5 or higher in 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 applicants are interviewed.

Scholarships

If admitted to UAB by November 1, Science and Technology Honors Program Applicants are eligible for all university wide undergraduate scholarships; many schools and majors within UAB also offer their own awards to outstanding students. Students who successfully complete the Science and Technology Honors Program will be awarded a two year scholarship covering tuition and fees for doctoral study in any UAB science or technology graduate program into which they are accepted.

Application

Applications and letters of reference must be received by January 1 of the student's senior year of high school. Students interested in applying for admission to the Science and Technology Honors Program should write or call;

Diane C. Tucker, Ph.D.
Director, Science and Technology Honors Program
OB9A 100, 1530 3rd Avenue South
Birmingham, AL 35294-1414
Phone: 205-996-5701
Email: sthonors@uab.edu

Early Medical School Acceptance Program (EMSAP)

The Early Medical School Acceptance Program (EMSAP) offers the assurance that after completing undergraduate studies at UAB , academically superior high school seniors will enter the UAB School of Medicine. Through EMSAP, students can complete an excellent undergraduate program and reserve their place in a world renowned medical school.

To be considered for admission to EMSAP, students must have the following:

- four years of English,
- four years of mathematics,
- at least one year each of chemistry or physics and biology,
- a grade point average of at least 3.5 (on a 4.0 scale) in academic subjects, and
- an ACT composite score of at least 30 or an SAT score of at least 1,320 (counting only the math and verbal part of the new SAT exam).
- be a U.S. citizen.

Selected candidates who meet the academic criteria are interviewed by members of the Admissions committee of the School of Medicine. In making its final selections, the committee considers maturity and exposure to medicine, as well as letters from teachers. For further information, including criteria for remaining in good standing in EMSAP, please see the EMSAP web site at: http://main.uab.edu/show.asp?durki=27435 or contact the Office of Undergraduate Admission, (205) 934-4076.

Global and Community Leadership (GCL) Honors Program

The newest honors option in UAB's Honors Academy, Global and Community Leadership Honors is designed for students who are searching for a deeper understanding of global and community issues and a way to relate those issues academically to their own values and life goals. In the Global and Community Leadership Honors Program a student investigates, analyzes, and addresses the challenges and concerns confronted by societies around the world. Faculty mentoring, specially designed courses, service learning courses and experiential learning in international and community settings prepare students to take leadership roles in campus and community organizations. In addition, students form a community with like-minded peers who share their goals for transforming the world.

Goals for Global and Community Leadership Honors Students:

- To acquire a deeper knowledge and understanding of global and community issues
- To reflect on and evaluate personal values and life goals in order to promote personal growth and clarify moral ideals
- To engage in experiential and service learning in an international or community environment
- To undertake leadership roles in campus and community organizations
- To participate in social opportunities and develop a sense of community with like-minded peers
- To maintain high academic standards and prepare for leadership in challenging careers or for further academic study.

Benefits

Students in the Global and Community Leadership Honors Program work closely with faculty to design a targeted plan of study focused on a global or community issue of interest within their major, gaining hands-on experience and conducting independent research during the process. During the first two years, the program exposes students to an array of global and community issues within social, political, economic and cultural systems. At the end of the second year, each student selects his/her issue of interest (See "Issue of Interest"). The final two years are then devoted to further academic study on this topic of choice, extensive hands on experiences through service-learning classes and/or internships, and the successful completion of a senior thesis project, which permits the student to share his/her unique knowledge with UAB and the broader community. Accordingly, students become "experts" on their issue of interest in their field of study. Graduates may then take their new knowledge directly into the work force, or elect to explore their expertise more deeply in a graduate or professional school. All students who complete the GCL Honors Program's course of study will graduate with *Honors in Global and Community Leadership*.

Because of the Program's scope and requirements, students receive a great amount of personal contact, both with GCL and academic faculty and advisors who act as mentors to students. This close personal contact is also evident among students who share similar interests and life goals, resulting in a strong sense of community. During the program, students have 24-hour access to facilities for study and recreation; stipends for academic presentations; on-campus benefits such as early-registration and preferred housing; and exposure to guest lecturers and cultural events.

Global and Community Leadership Honors Facilities

In the Spring of 2009, the Global and Community Leadership Honors Program will move into Heritage Hall, the newest building on UAB's campus, located at 1401 University Blvd. The new facility will include GCL Honors staff offices, as well as classroom space, a conference room, computer lab, kitchen, study lounge, and recreational area shared with Science and Technology Honors. GCL students will have 24-hour access to this space. Through Fall Term 2008, GCL Honors occupies Suite 233 in Campbell Hall, located at 1300 University Blvd. Meeting and study space for students is also available in the current suite.

Global and Community Leadership Honors Coursework

GCL Honors builds upon the breadth of UAB's academic offerings, providing a depth of study not otherwise found in the typical curriculum. The coursework is composed of 32 hours of GCL Honors credit, as well as three (3) hours of Honors Academy credit. The exact coursework is tailored to the individual student and his/her major, using the framework described below.

32 Hours of GCL Honors Credit	
Two, 3-credit hour GCL signature courses	6 hours
GCL-Approved courses • 9 hours from the GCL-approved core • 3 hours from the Social Justice-approved list • 6 hours from Departmental Honors or Honors Option	18 hours
Study abroad or study away, internship, or service learning	3 hours
Honors thesis on global or community leadership topic within major field	3 hours
Two, 1-credit hour GCL Leadership courses	2 hours
3 Hours of Honors Academy Seminars	
Three yearly 1-credit hour leadership seminars, required for all Honors Academy students	3 hours

As outlined, Global and Community Leadership Honors students complete coursework in several categories, or types of learning opportunities, which are more fully described below. Please note that much of the coursework is fully integrated into the student's course of study and major and should therefore present no obstacle to the completion of any major a student may chose.

A) Global and Community Leadership Honors Signature Courses

Each incoming GCL class takes two signature courses as a cohort, the first during Fall Term of Year 1, and the second during Fall Term of Year 3. These courses follow the mission of Global and Community Leadership Honors by exposing students to social, economic, cultural, and public policy issues that are current in both a local and an international context.

The first GCL Signature Course is "Exploring Birmingham: Power, Change and Community," which views Birmingham as a place to examine the different ways that modern social, economic and political systems have allocated power and created societies that are more just and democratic than in the past, but remain challenged by the vestiges of past inequities. Through readings, films, discussions, lectures, and actual experiences in the city itself, students learn how to gather and analyze information, think critically about tough and contentious issues, and gain new perspectives on some old and seemingly intractable problems.

The second required GCL Signature Course occurs in the Fall Term of the student's third year. This course, developed in conjunction with the UAB Office of Service Learning, will be largely conducted in a variety of selected sites in the Birmingham metropolitan community where GCL Honors students will explore and experience their Issue of Interest with a community partner. Students will spend a minimum of 8 hours per week for 10 weeks (or 80 hours total for the semester) in service to a community or local government agency that has a direct relationship to the student's chosen issue. The class will also meet on a regular basis, at least every other week, to share reflections and analyze and discuss lessons learned from the experience and how they relate to the student's field of study.

B) GCL-Approved Courses

GCL Honors seeks to build upon current course offerings, providing GCL Honors students with four ways of fulfilling 18 hours towards GCL Honors approved courses. One is through GCL-approved core courses, which will apply towards the UAB core curriculum requirement of 41 hours and will also count towards the GCL core requirement. Such approved core courses fulfill nine (9) of the 18 hours. Students will be provided with a list of these GCL-approved core courses, which come from the Core Areas for Arts and Humanities and for History and Social and Behavioral Sciences.

The second way to meet this requirement is to take an honors course within a departmental honors program. Credit in these honors class may count towards fulfillment of both the individual departmental honors program and the GCL Honors Program. To qualify for GCL Honors credit, departmental honors courses must have a demonstrated direct application to the student's declared Issue of Interest. The third source of GCL-approved courses is through a list of designated "Social Justice" classes. One 3 credit hour course from this list is required. Should a student wish to propose another course outside of this list, he/she may recommend it to the GCL Honors Program Director for approval.

And finally, the fourth source of GCL-approved courses is to option a regular course as an honors course. In order to meet honors expectations for such a class, the student must first complete an Honors Option Proposal, providing the course syllabus, a description of what additional work (for example, additional research or directed reading on the Issue of Interest) that he/she plans to do for the honors credit, as well as evaluation procedures. After review by the academic advisor, the proposal must be signed by the student, the professor of record for the course, and the GCL Honors Director.

C) Study Abroad, Study Away, Internship, or Service Learning

Students in GCL fulfill a minimum of 3 credit hours in a study abroad, study away, internship, or service-learning course setting. Although the Study Abroad Office connects students with numerous opportunities across many disciplines, we recognize that there may be a more fitting study abroad/study away opportunity not available among the current selections. For that reason, GCL Honors will work closely with each student to identify the most beneficial placement for their own academic major, area of specialization, and especially their Issue of Interest. We work one-on-one with a student and potential partners to assess mutual interests; research local, national, and international placements -- whether they be another university, a nonprofit, or a governmental agency -- and walk through the process of contacting such placements and making arrangements for appropriate academic study or internships. Such individual placement insures that students will find an opportunity that both matches their interest and passion and at the same time provides a challenging learning opportunity. Likewise, service-learning opportunities exist across many disciplines at UAB, and are managed by the Office for Service Learning. This Office can also place students in a community setting in conjunction with an academic class for which they may receive GCL Honors credit. All study abroad, internship or service-learning course options must be approved in advance by the GCL Honors Program in order to earn credit towards completion of the Program.

D) Honors Thesis

As noted above in B), at least 6 hours of coursework in the major field of study must be acquired through a departmental honors course or through courses approved by the GCL Director that will be enhanced for additional research and reading and will also contribute to a deeper understanding of the student's Issue of Interest. This coursework, combined with off campus experiences in the field, constitutes a concentrated two-year learning process that culminates with an Honors Thesis project. Through the thesis the GCL student formally shares the body of knowledge about his or her Issue of Interest with other students and faculty. The goal is for the GCL Honors graduate to develop an expertise in a particular field of knowledge that may be transferred directly to the workforce or pursued in further study in graduate or professional school. Each GCL student will be personally advised throughout this final stage of the Program to ensure a successful completion of the thesis requirement.

E) Honors Academy and GCL Leadership Seminars

All students in the UAB Honors Academy will take three, one-hour Leadership seminars each Fall Term beginning with the first year and ending with the third. These seminars allow Academy students to study Leadership amongst scholars from the other university-wide honors programs, and they are organized by the Directors from each of the programs. In addition to the Honors Academy seminars, GCL Honors students must complete two one-hour GCL Leadership seminars. The seminar in the Spring Term of the first year is *Thinking like a Leader,* which studies psychologist Howard Gardner's profiles of key leaders "who by word and/or personal example markedly influence the behaviors, thoughts, and/or feelings of a significant number of their fellow human beings." The seminar in the Spring Term of the second year is *Thinking Locally and Globally.* This seminar explores current critical issues and the leadership challenges they present. It is during this second seminar that students will determine their own Issue of Interest and develop their strategy for engaging this issue more deeply.

Issue of Interest

Global and Community Leadership Honors is, ultimately, an opportunity for students to pursue a particular topic or issue, applying what they are learning in their major towards a more specific area of passion or deep interest. The student must choose this personal Issue of Interest when the major is chosen, or at the end of the Spring Term of the second year. The GCL student will then concentrate on this issue for the next two years, both in selected academic coursework and experientially through service learning, internships and hands on research.

The types of issues to be explored are nearly endless. Some larger thematic areas within which students might specialize include: environmental issues; globalization; governmental/political; public health and health policy; poverty (globally or nationally); public education; children's issues; global and cultural diversity; violence; economics and political economy; communications; and science (or technology) and society. Within each of these larger thematic issues, or others that can be suggested, a student will choose to explore a carefully defined Issue of Interest within his/her own major field of study. For example, a student in the health professions may focus on the disparities between women living in urban versus rural areas receiving prenatal care, one smaller subset of the public health arena. Or a student in Biology may chose an issue of concern about the environment, while another may chose to focus on genetics. Such specialization is supported mainly through carefully targeted honors courses or other courses that would be enhanced to challenge honors students, and also through study away and/or internship opportunities.

Student Activities

In addition to students' individual activities, we host or participate in a number of events each semester. Whether serving as a group through campus-wide service events such as "Into the Streets", or gathering for dinner at someone's home, GCL Honors offers opportunities for group participation in a variety of educational, recreational, and service activities. Many of these events are planned by the GCL Honors Leadership Council, a student-run group composed of several committees. Students are encouraged to participate in the committees, which include Service Projects, Social Activities, Academics, Recruitment, Intercollegiate Involvement, Marketing and Public Relations, and Mentors. While GCL Honors does not currently have explicit extracurricular requirements, such as service hours or leadership participation, students who fit our mission will naturally become involved both on campus and in the community.

Continuation in the Program

Global and Community Leadership Honors students are required to maintain a 3.0 average both in their overall undergraduate coursework and in their GCL Honors coursework. If the average falls below a 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 *Honors in Global and Community Leadership.*

Who Should Apply

Global and Community Leadership Honors enhances the college experience for students with passion, motivation, ideas and initiative, and a desire to work towards the common good. Our students think critically about tough issues, challenging the way things are by asking "why," and trying to determine if a better solution exists in a given situation. If these traits describe yourself, then GCL Honors is your opportunity to connect your ideas and initiative with your academic interests to prepare for local, national, even global leadership. Typically students will enter the GCL Honors Program in their first year. However, current first year students enrolled at UAB may be considered on an individual basis for admission to the Program if there are available positions. Interested students should contact the GCL Honors Program office for application information before the beginning of Spring Term if possible.

Scholarships

If admitted to UAB by November 1, Global and Community Leadership Honors Program applicants are eligible for all university-wide undergraduate scholarships. In addition, many schools and majors within UAB also offer their own awards to outstanding students. Current Global and Community Leadership Honors students are also eligible to apply for study away/internship scholarships. Students interested in these awards should contact GCL program staff for more information.

Application

Students interested in applying for admission to the Global and Community Leadership Honors Program should apply during their senior year of high school. The priority deadline is December 15, and the extended deadline is January 1. Applications can be found online at www.uab.edu/honorsacademy, or interested students should write or call:

Director, GCL Honors Program
UAB, 1530 3rd Avenue South
Birmingham, AL 35294-1170
Phone: 205-934-8683
Email: gclhonors@uab.edu

Student Academic Engagement

Study Away

Director: Josh Carter (Academic Programs and Policy)

The UAB Study Away Program offers students the opportunity to compliment and enhance their degree programs by earning credit toward their degree requirements while studying and living outside the Birmingham, Alabama area.

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. Additionally, 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 or The Washington Center. 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. At least Sophomore standing.
2. Minimum Cumulative GPA of 2.7 or above (The UAB Study Away Program 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 Study Away Program and/or Faculty Leader

Types of Programs

1. **International Reciprocal Exchanges** are programs for which UAB has an established affiliation agreement with a foreign university. Upon consultation with the UAB Study Away Program 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 course levels:

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

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

2. **Faculty-Led Short-Term Programs** are UAB classes that are developed and taught by UAB faculty members and have some portion of the class (a minimum average of at least two weeks) that takes place in a foreign setting as defined under "What is Study Away." These classes will appear in the UAB course schedule book with a section and delivery method code of SA (Study Away). Such faculty-led classes are generally taught during the summer term.

3. **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 Study Away Program 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:

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

4. **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. Once these study away courses have been approved by the UAB Study Away Program 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:

NSE 100-199 SA Level I Special Topics	NSE 400-499 SA Level IV Special Topics
NSE 200-299 SA Level II Special Topics	NSE 500-599 SA Grad Level I Special Topics
NSE 300-399 SA Level III 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.*

5. **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 Study Away Program 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:

Internship (TWC 300) 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.

Washington Center Evening Course (TWC 301) 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

Washington Forum (TWC 300L) 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.

2 Week TWC Academic Seminars (TWC 302)

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. In 2008, Academic Seminars are only offered in January and August.

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 Study Away Program works in tandem with Academic Programs and Policy and the UAB Schools 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 Study Away Program Office. Contact the UAB Study Away Program Director at (205) 975-6611, or via the UAB Study Away Program website at www.studyabroad.app.uab.edu for further information concerning various programs, the resource library, references for peer consultation and academic advising, and financial aid applicability and contacts.

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, 3rd 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 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.

Office for Service Learning

What is Service Learning?

UAB's Office for Service Learning promotes service-learning courses in which students engage in service within the community as an integrated aspect of a for credit course. Students participate in an organized service activity and reflect on that activity in such a way as to gain further understanding of course content, a broader appreciation of the discipline, and an enhanced sense of personal and social responsibility

Mission, Vision, and Learning Objectives

The Mission of Service Learning is to produce participatory citizens through opportunities that integrate academic learning and civic engagement for the mutual benefit of 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.

Key Learning Outcomes of Service Learning are:

1. **Attitudinal:** A student who participates in service learning develops an enhanced appreciation of community issues/needs
2. **Behavioral:** A student who participates in service learning increases his or her involvement with community affairs
3. **Cognitive:** A student who participates in service learning gains an understanding of how the knowledge, skills, and abilities learned in the course apply to every day life

Benefits to Students of Service Learning are:

- A better understanding of course material and a greater ability to apply course concepts outside the classroom
- Higher gains in academic skills, life skills, and personal and social responsibility
- Increased engagement, curiosity and reflective practice
- Clarification of career goals

Service-Learning Courses offered at UAB

UAB faculty is continually evolving their courses to include service learning pedagogy. Eligibility to participate in a service learning course depends on the particular course requirements as established by the Department and faculty member concerned. Below are some examples of such courses.

Arts and Humanities

Foreign Language Internship is an opportunity to engage in **service learning**. It is a faculty-supervised opportunity for practical experience in tasks of international scope may provide opportunities to use language(s) studied or applications of cultural knowledge. Foreign Language majors have the opportunity to work on an internship in the community before graduation. The field experience credit hours normally count towards general electives credit and cannot replace language courses. This is a practical experience with responsibilities and rewards. It provides opportunities to turn theory into practice; learn intangibles of the workplace; gain insights into the strengths and weaknesses of formal education; and make contacts to help further career development. Students work with Hispanic Interests Coalition of Alabama (HICA), hospitals and clinics, Hoover Multicultural Resource Center, and inner city schools.

Business

Strategic Management (BUS 450), the current capstone integrative course for all graduating business students focuses on how business firms formulate, implement and evaluate strategies. Students use the knowledge acquired from prior business courses, coupled with new strategic management techniques learned, to chart the future direction of different community businesses most of which are non-profit organizations. The major responsibility of the student is to make an objective, a strategic decision and to justify it through oral and written communication. This activity provides

a forum for students to be involved in the practical application of business principles and strategies, while affording community business with constructive and professional information that will help them develop and maintain cost-effective operations. Therefore, the course provides enhanced academic learning which actually complements traditional classroom pedagogues, resulting in an enriched learning experience.

Education

Aspects of service learning are built into virtually every required course in every program within the School of Education. For one example, students taking **Developmental Reading** tutor at Better Basics as part of a long-term arrangement. Sections of **Developmental Reading I** are taught at Glen Iris Elementary and UAB Child Care Center.
Future service-learning opportunities will include courses offered as part of Alabama Hands-On Activity Science Program Education Counseling.
Service Learning is being integrated in the Counselor Education Program.
SHAPE (Sexual Health Awareness through Peer Education) Education Course offered as Undergraduate Course (HE 490 00C) or Graduate Course (HE 691 00C).

Engineering

Some classes in engineering also have service learning as a required component. This is especially common in the capstone Senior Design classes. Past classes have included such activities as designing and building physical therapy devises for the Bell Center in Birmingham, and completing the survey and site development plan for a proposed neighborhood park.

Health Professions

Health Professions recognizes service-learning pedagogy as a good fit with health professions education and is in the process of modifying and initiating courses that fall within rubric of service-learning. All of the school's programs require hands-on learning experiences in real-life clinical and business settings.

Natural Science & Mathematics

Service Learning is a component of the Environmental 108 Course

Medicine

Patient, Doctor And Society - Dr. Stephen Smith

This course includes a service-learning component in which students engage with a community partner to highlight the importance of effective communication, and understanding cultural identity and cross cultural relationships in clinical medicine practice.

Nursing

Community Health Nursing Courses include a strong service-learning Component

Public Health

The Origins of the Epidemics: How Public Health Defines Populations and Nations (PUH 301) Public health identifies the origins of epidemics the control of which defines populations and nations. 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 civilization. The course may include a small group project in which each group selects a public health community service project designed to expose the students to significant contemporary public health issues in Birmingham.

Social and Behavioral Science

Civic Engagement SBS 303 for SBS Honors Students a three credit hour service- learning course (7 students fall 2007). Each student works with a selected community partner, engages in regular structured oral and written reflection, focuses on a community issue, prepares a final paper and presentation.

Intro to Digital Community Studies (DCS 101) This class explores the concept of community through the lens of urban redevelopment. Using Birmingham as the unit of analysis, students will investigate the design and social dynamics of urban communities through the use of digital applications and direct field experience. Students will be introduced to a wide range of digital applications that can used to represent Birmingham's history, culture and environmental landscape. Explore how social scientists can employ a variety of digital technologies such photography, filmmaking, and podcasting to investigate, analyze and represent important issues such as sustainable development, the environment, and cultural diversity.

Special Topics: Perceptions of Poverty in America (SOC 488) (21 Students spring 2008) This service-learning course engages students in critical analysis of perceptions and policies toward those living in poverty in the United States while providing essential tax preparation and financial literacy services to members of our local community. Academic coursework focuses 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, and predatory lending practices that erode wealth. In addition to classroom discussions, students participate in the SaveFirst Initiative, which trains college and graduate students to offer free tax preparation services and financial literacy information to working families across the state of Alabama. Students are trained to complete tax returns and then use this expertise to serve low-income individuals at sites in the greater Birmingham area.

Sociology Practicum 488 Service-learning within sociology is a supervised community service project related to sociology and social policy through which a student expands his/her knowledge of society, practices critical thinking and the values and skills needed for effective citizenship, and has the opportunity to address some social problem or problems. The student will: (1) engage in a service activity with a selected community partner, (2) reflect on service activities through journal entries and meetings with the professor, and (3) integrate engagement, reflection and social science concepts in a final paper. The course aims to involve the student in service learning projects conducive to the development of the sociological imagination and the examination of the connection between sociology and citizenship

Community-Based Practicum In Psychology PY 397 This program was established to provide students with an opportunity to receive academic credit for participating in service activities in the community that involve the application of psychological knowledge. Supervisors and settings vary widely, but often involve a clinic, center, or other setting that provides mental health or related psychological services. Historically, students have participated in community practica at such agencies as the Crisis Center, Family Court, Department of Human Resources, and Children's Hospital. The student must be engaged in meaningful work of a psychological nature, and supervised by a psychologist, licensed counselor or other qualified professional. http://www.psy.uab.edu/PYundergrad/PY397.html

Ethnographic Film-Making (DCS 401)/(HON 316)/(ARS 406 & 407) An interdisciplinary course offered through the School of Social and Behavioral Sciences, Center for Urban Affairs and University Honors Program. The goal of the course is for student pairs 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. The course encourages students to explore the meaning of community at the group/collective level and the individual level and to create films examining issues affecting the Birmingham community, including housing, education, healthcare, immigration, poverty, and the environment.

Social Work Majors are engaged in service learning courses as part of their major.

Political Science 494 - Public Affairs Internships Students engage in service-learning with community agencies, prepare written reflections and a final paper on an issue relating to the work of their community partner

Fall 2008 Freshman Learning Communities with Service Learning Components

Computer Sciences CS 101 - One section is an FLC geared toward training students in fluency in technology. There is a hands-on basic component - a project that students will take eight weeks to complete. The students can choose their projects but a number of them use this opportunity to build something for a service agency.

Dollars and Sense: An Introduction to Business, Economics, and Personal Finance (two sections) (LCB 101) This FLC introduces students to the fundamentals of business and economics as they relate to everyday life, to the programs in the School of Business, and to career opportunities for business majors. Early financial literacy fosters lifetime personal financial planning and a practical understanding of supply, demand, and price determination. Curriculum includes a stock portfolio simulation. This FLC includes LCB 101 Freshman Seminar: Dollars and Sense, BUS 101 Introduction to Business, EC 210 Principles of Microeconomics, and EH 101 English Composition I or CM 101
Public Speaking.

Exploring Birmingham: In Search of Community This FLC introduces students to the varied social, political and economic aspects of the largest city in Alabama through experiential learning. Even students who grew up in the Birmingham metropolitan area will be astonished by this introductory survey of the city they've taken for granted. Students will conduct empirical research doing field work in areas of the Birmingham community, evaluate historical visual documents, and relate their research to contemporary issues. Curriculum includes City as Text© pedagogy and the Buying Birmingham game. This FLC includes the Freshman Seminar LCS 101 Exploring Birmingham: In Search of Community, HY 121 US History Since 1877, and SOC 100 Introduction to Sociology.

Freshman Year Experience (three sections) This FLC provides students with the foundation for collegiate success by strengthening critical thinking, problem solving, and decision making skills. Curriculum includes reviewing a range of study and learning techniques appropriate to different students and learning to efficiently and accurately communicate data using charts, graphs, and tables. This FLC includes UNIV 101 The University Experience, EH 101 English Composition I, and SOC 100 Introduction to Sociology or HY 102 Western Civilization II.

Impacting Community Through Service Learning This FLC is a hands-on, experiential study of the helping professions in the classroom and through on-going service within the community through community agencies. Curriculum introduces sociological connections between race, class, and other social identities of gender, age, and ability. Students are introduced to basic skills in counseling, crisis intervention, and working with special populations. This FLC includes LCSL 101 Freshmen Seminar: Impacting Community through Service Learning, EH 101 English Composition I, and SOC 100 Introduction to Sociology.

University 101 Courses Commencing Fall 2008, all nine U-101 Course Sections will incorporate service learning as part of the U-101 Project.

Honors Academy Opportunities

Global and Community Leadership Honors Program The GCL Honors Program is constructed to have Service Learning as an integral part of the program. By the time students reach their junior year, they will have identified an issue of community and global significance applying knowledge to a particular issue. In Junior year students will take a 10 week service-learning course in which they will be connected to a community organization and will engage in structured reflection. This will be required and then after that they'll do something off campus focusing on their particular issue in preparation for their thesis.

University Honors Program Students participating in the University Honors Program have various opportunities to engage in Service Learning, including through a Seminar in which University Honors students work with middle school students at Arrington Middle School

Science And Technology Honors Program Dr. Mary Williams of Center for Community Outreach Development (CORD) is working in conjunction with Dr. Diane Tucker, Director Science and Technology Honors Program, to develop a for credit service learning course providing service learning opportunities for students in the hard sciences

Study Away Service Learning Opportunities

UAB is part of the National Student Exchange through which our students have the opportunity to go to other universities and to be involved in service-learning at other campuses.

International Service-Learning Opportunities include:

- Child Family Health International (HIV/AIDS in India)
- International Partnership for Service-Learning
- Engineers without Borders
- School of Nursing - Global and Community Health in Honduras

Undergraduate Research

Director: Christopher Reaves

What is Undergraduate Research?

Undergraduate research is a student-faculty collaboration to examine, create and share new knowledge or works in ways commensurate with practices in 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 a 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. Below are some examples of such courses.

Art Studio

ARS 362 - Creative Strategy for Advertising Design - 3

Creative concepts and strategy for design of advertising campaigns. Research and presentations. *Prerequisite:* ARS 350, EH 102, MC 101, or approved substitute. 3 hours. This course is cross listed as MC 320.

ARS 387 - Field Study in Art Studio - 3

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. *Prerequisite:* ARS 200

ARS 487 - Field Study in Art Studio - 3

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. *Prerequisite:* ARS 200

Business

BUS 400 - Business Honors Seminar - 3 hrs

This course will facilitate completion of an accepted Business Honors Thesis/Project Proposal. Students conduct independent research and present work in progress. *Prerequisite:* Acceptance into the School of Business Honors Program and BUS 300. *Prerequisites:* BUS 300

Health Education

HE 490 - Special Projects in Health Education - 1 to 6

Exploration of health-related topic via professional literature or research project.

Engineering

EGR 301 - Honors Research I - 1

Introduces students to research methodology, ethics, data analysis, and technical communication. Students must be invited into program in order to enroll. *Prerequisites:* MA 227 or EGR 265

EGR 302 - Honors Research II - 1

Introduces honors students to research possibilities available in School of Engineering departmental honors programs. *Prerequisites:* EGR 301

BME 495 - Honors Research II - 1 to 3

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 or BME 395

CE 440 - CE Honors Research - 3

Departmental honors students work closely with faculty researchers and graduate students in departmental concentration specialties to develop research skills.

Health Sciences

AHS 421 - Independent Study - 1 to 3

Media research to develop paper and oral presentation on approved topic.

Biology

BY 398 - Undergraduate Research - 1 to 3

Research project under supervision of faculty sponsor. May be repeated for a total of 3 semester hours credit. *Prerequisites:* 12 semester hours of BY with GPA of 3.0 and permission of instructor.

BY 498 - Honors Research - 1 to 6

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. *Prerequisites:* 18 hours of biology with minimum GPA of 3.5 in biology classes and admission to Honors Research Program.

MESC 491 - Research on Special Topics - 1 to 6

Enrollment by special arrangement in any subject listed. *Prerequisite*: Permission of MESC representative, Department of Biology.

Chemistry

CH 497 - Senior Research - 3

Research project under supervision of chemistry faculty sponsor. Two semesters are required for minimum accumulation of 6 semester hours. A comprehensive written report in ACS format is required. *Prerequisites*: CH 237 and CH 238; GPA 2.5 or greater in chemistry courses; permission of instructor, and chemistry academic advisor.

Computer and Information Sciences

CS 398 - Undergraduate Honors Research - 1 to 3

Research project under supervision of faculty sponsor. *Prerequisite:* 18 semester hours in computer science with grade point average of 3.5 in computer science and permission of instructor.

Mathematics

MA 498 - Research in Mathematics - 1 to 12
Topics vary; may be repeated for credit.

MA 499 - Research in Mathematics - 1 to 12
Topics vary; may be repeated for credit

Physics

PH 495 - Honors Research - 3
Research in an area of active research, under the direction of a faculty sponsor and the Honors Committee. May be repeated.

PH 498 - Directed Research - 1 to 6
Directed Research.

Nursing

NUR 493 - Honors Seminar I: Research Option - 2
Content focuses on the development of a researchable project. Admission to the School of Nursing Departmental Honors Program. NUR 361 Honors is a pre or co-requisite.

NUR 495 - Honors Seminar II: Research Option - 2
Content focuses on the completion of the research project developed in NUR 493. Continuation in the School of Nursing Departmental Honors Program is required.

Digital Community Studies

DCS 401 - Ethnographic Filmmaking - 6
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) introduction 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. *Prerequisites:* DCS 101 and DCS 201

DCS 450 - Advanced Digital Community Studies - 3
This course will serve as a continuation of DCS 401, offering students the opportunity to develop more in-depth projects and will receive instruction in advanced technical skills for multimedia production. *Prerequisites:* DCS 401

DCS 460 - Independent Digital Community Studies - 3
This course will provide an opportunity for advanced students to pursue individual projects in multimedia studies. *Prerequisites:* DCS 401

DCS 470 - Internship in Digital Community Studies - 3
Students will engage with community partners and organizations through service and research partnerships. *Prerequisite:* DCS 401

Gerontology

GER 488 - Sociological Practice - 3
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

GER 490 - Independent Study: Sociology - 1 to 3
Individually designed programs for students wishing to conduct semi-independent research or guided reading in gerontology.

GER 491 - Independent Study: Sociology - 1 to 3
Individually designed programs for students wishing to conduct semi-independent research or guided reading in gerontology.

International Studies

ITS 497 - Honors Research in International Studies - 3
Directed honors research by International Studies Honors students. *Prerequisite:* open only to International Studies Honors students by permission of ITS director.

Women's Studies

WS 491 - Dir Studies Women's Studies - 1 to 3
Independent research with faculty guidance on selected gender-related issues.

Anthropology

ANTH 498 - Honors Thesis Research - 3 to 6
Independent development of research project.

Political Science

PSC 496 - Independent Study/Special Projects - 1 to 3
Selected Reading or research under supervision of member of PSC department.

PSC 497 - Hon Res in Political Science - 3 to 6
Directed research by Political Science Honors student. *Prerequisites:* PSC 401 or PSC 402 or PSC 403 or PSC 404

Urban Affairs

UA 496 - Urban Research - 3
Directed research for students with adequate background in methods and statistics; classroom introduction to research methodology and directed group research for those without significant research statistics background.

UA 497 - Urban Research - 3
Directed research for students with adequate background in methods and statistics; classroom introduction to research methodology and directed group research for those without significant research statistics background.

History

HY 401 - Honors Thesis - 3
Independent research project for honors students in history, directed by faculty advisor. Course taken twice to produce thesis for Honors in History.

Justice Sciences

JS 490 - Indep Res in Criminal Justice - 1 to 3
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 - Indep Res in Criminal Justice - 1 to 3
Independent readings, research or project approved and directed by a criminal justice faculty member who supervises proposed plan of study. Permission of Department Chair.

Psychology

398 - Research Practicum in Psychology - 1 to 6
Project or research activity supervised by faculty. Cannot be taken Pass/Fail. Prerequisite: permission of Director of Undergraduate Studies or PY Advisor

Sociology

SOC 488 - Sociological Practice - 3
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. *Prerequisites:* SOC 100

SOC 490 - 495 - Independent Study: Sociology - 1 to 3
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. *Prerequisites:* SOC 100

UAB Honors Academy

UAB Honors

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.

Science and Technology Honors

Research Approaches I and II. (Spring semester Freshman and Sophomore Years; 3 credit hours each). Visit research laboratories to observe and learn research methodologies used by scientists in diverse disciplines. Students can elect brief (four week) apprenticeships in research laboratories or outreach settings.

Further Information

For further information on the UAB Office for Undergraduate Research contact Dr. Christopher W. Reaves at (205) 934-8667 or visit the web site at www.uab.edu/undergraduate-research

The Division of General Studies

Director: Nancy Walburn

The Division of General Studies is a primary source of academic support for students. Through two offices- The Office of Exploratory Studies and The Office of Student Academic Success, the division coordinates and offers academic programs and services to enhance the academic experience and support the academic success of undergraduate students. The Office of Exploratory Studies includes academic advising services for three key areas –advising for students who are undecided about their major, students pursuing a major in pre-nursing and students with a professional goal of medicine, dentistry or optometry; the Office of Student Academic Success coordinates the freshmen year experience course, University 101 and other academic support programs such as Supplemental Instruction, Academic Coaching and General Study Strategy Sessions, which are designed to assist students in strengthening their academic skills necessary for success in the University.

Exploratory Studies

The Exploratory Studies advising system provides a comprehensive program for students who are undecided about a major and students who are completing the requirements for admission to programs in nursing and business. Advisors assist students in identifying their educational and career goals and in selecting courses and supporting activities to achieve these goals. Students work with their advisor to assess their skills, clarify their goals and develop an individual plan for their chosen program of study.

Academic advising is provided in individual sessions and in group sessions during New Student Orientation. Advisors provide students with information regarding academic policies and procedures, explanations of university expectations and descriptions of options and opportunities available to help them achieve their academic goals. Additionally, advisors assist students in developing skills for successful academic performance.

The following majors are advised in Exploratory Studies:

Undeclared (UDEC)
Students who have not yet decided on a major have the opportunity to explore options for majors while taking courses that count toward a degree. Undeclared students in Exploratory Studies may select any of the undergraduate majors in the university; however, they must select a major by the completion of 60 semester hours of course work. Advisors in Exploratory Studies work with each student to choose a field of study that is compatible with the student's skills, interests and priorities.

General Studies Business (GSB)
Students who have identified a major in the School of Business but do not meet the grade point average requirements work with a Exploratory Studies advisor toward the goal of becoming eligible for admission to the School of Business or identifying other options that are achievable.

Pre-Nursing (PNUR)
Students who have identified Nursing as a major must complete prerequisites and achieve a competitive grade point average for admission to the School of Nursing. Advisors work with each student to become a competitive applicant or to consider appropriate options for their educational goals.

Students should call (205) 934-6135 or visit the office (Room 318, Hill University Center) to make an appointment.

Pre-Health Professions Advising

Pre-Health advising is recommended for students who plan to apply to medical, dental, or optometry school. The Pre-Health Advising Program is designed to help students become competitive applicants for health professional programs beyond graduation. Pre-Health advisors assist students in major fields of study across the university as they prepare for the competitive application process to professional schools. Beginning with group meetings at freshman orientation, students see the pre-health advisors in information sessions, group meetings by class level, and seminars in addition to individual advising sessions throughout the student's undergraduate preparation. Each student, with an advisor, creates an individual plan to develop the high level of academic and interpersonal skills critical to successful application to professional school. Opportunities are available for students to participate in assessment interviews with admissions committee members, an active national pre-health honor society, and a number of leadership and community service activities as they develop the interpersonal skills necessary for a professional career in healthcare. The pre-health advisors coordinate the preparation of required letters of evaluation at the time of a student's application to professional school.

While there is not a specific pre-health major at UAB, most undergraduate programs of study easily accommodate the pre-requisite courses required for admission to schools of medicine, dentistry and optometry. In principle, students may select any of the undergraduate majors listed in this catalog. Students are encouraged to pursue individual academic interests by the professional school admissions committees.

Academic Program

The Pre-Health advisors work in collaboration with the student's academic advisor to plan individual academic programs according to the requirements of the students' chosen majors. In addition, students will incorporate the following courses that are required by medical, dental, and optometry schools:

Courses Required by most Medical, Dental, or Optometry Schools:

English	EH 101, 102
Biology	BY 123 & 124 (with labs)
Chemistry	CH 115 (116 lab), 117 (118 lab), 235 (236 lab), 237 (238 lab)
Mathematics	Two semesters of college math. (May include statistics or computer science) We recommend math through pre-calculus (MA106).
Physics	PH 201(211lab) & 202 (212 lab); or 221(231 lab) & 222 (232 lab)

The UAB School of Optometry recommends Biochemistry (CH 461), The Biology of Microorganisms (BY 271), one semester of calculus, one semester of statistics, two courses in psychology, and two semesters of additional courses in social and behavioral sciences.

The UAB School of Dentistry requires 12 semester hours in biology. As a result, one additional biology course is required: BY 210, 256, 271, 314, and 330 are recommended choices. Biochemistry is strongly recommended (CH 461). Calculus and analytical geometry (MA 125) is also strongly recommended.

Students should take these courses during their freshman and sophomore years in order to be prepared to take the required admissions tests as juniors and are encouraged to consult the catalogs of specific professional programs in which they have an interest in order to be certain that they complete all requirements for admission prior to application to a particular professional program.

Alternative Careers

Students should bear in mind that admission to schools of medicine, dentistry, or optometry is highly competitive. Satisfactory completion of pre-professional requirements in no way guarantees acceptance by the professional schools. The undergraduate major should therefore be chosen with care so that alternative career paths are available if admission to the desired professional school is not granted. Students should also keep in mind alternative health professions in which a doctorate may be earned, such as pharmacy, podiatric medicine, or veterinary medicine. The Pre-Health advisors work with students and provide resource materials to explore options and develop individual plans.

Completion of Bachelor's Degree

In addition to the prerequisite courses for admission to a school of medicine, dentistry, or optometry, students must also satisfy the requirements for completion of a degree including requirements for a major. In rare situations a student may be accepted to an accredited medical, dental, or optometry school before completing the requirements for a baccalaureate degree. These students, upon successful completion of their first year of professional study, may then receive a Bachelor of Science degree with a major in natural science.

Student Academic Success Programs

The programs offered through the Office of Student Academic Success are designed to assist students in refining and strengthening the academic skills necessary for success in the University. The staff works closely with other departments and offers the following programs:

University 101: Designed to promote the academic success of entering freshmen, University 101 is a three semester hour course offered as elective credit toward degree requirements. It is a component of the Freshman Year Experience Program and focuses on critical thinking skills and the academic tools needed for success in core curriculum courses and for success in navigating the transition into the university.

The course is also related to three goals of the University's Quality Enhancement Plan:

Quantitative Literacy
Oral and Written Communication
Civic Responsibility

The course is open to regularly admitted student and required of conditionally admitted students.

The critical thinking skills are taught in relation to three areas of a student's university career:

Success in core curriculum courses
Personal academic planning and decision making
Development of a university experience

Course Description

University 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.

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.

General Study Strategy Sessions

Designed to help students explore effective learning styles and efficient study practices, these sessions are led by trained student leaders. Open to any student with an interest in improving their study practices, these sessions are offered each term and are free of charge.

Academic Coaching

Working in individual sessions trained Academic Coaches assist students in gaining a better understanding of the learning process and the behaviors and study skills necessary for academic success. Topics discussed include development of successful academic behaviors, reading and information processing, self assessment, critical thinking, communication, time management, self-management, goal setting and action planning.

ROTC

Army ROTC

Faculty: Abbott, Donna, Jamison, Lewis, Parker, Ransaw, Scott,

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) 934-7215.

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) 934-7215.

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.

Course Descriptions
Military Science (MS)
Lower Division Courses

MS 101-102 - Military Leadership -
Emphasizes personal organization, time management, and goal-setting skills. Designed to help students determine priorities and succeed in college and in life. Also introduces students to the role of the military in American society and government.

MS 103 - Military Science I – 3
Physical training, leadership, and communication skills. For students unable to take MS 101 and 102. *Prerequisite:* permission of Professor of Military Science.

MS 201-202 - Military Leadership – 2
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. Leadership dynamics, individual and group behavioral processes, and team building. Analysis of professional values and ethics. Focus on decision-making and problem-solving skills.

MS203 - Leadership and Management – 3
Physical training, leadership and communication skills. For students unable to take MS 201 and 202. *Prerequisite:* permission of Professor of Military Science.

MS250 - Leadership Training Course, LTC – 6
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 two-year full scholarships to UAB. *Prerequisite:* permission of Professor of Military Science.

Upper Division Courses

MS301 - Military Leadership – 3
Instruction and application of advanced map reading and land navigation skills; patrolling, calling for, and adjusting indirect fire; writing and presenting operations orders. Preparation for Advanced Camp at Fort Lewis, Washington. *Prerequisites:* completion of Lower Division courses.

MS302 - Military Leadership – 3
Basic military tactics and troop-leading procedures; survival keys and code of conduct; leadership doctrine, professional values, and platoon defensive and offensive measures; platoon movement techniques and command and staff functions. Preparation for Advanced Camp at Fort Lewis, Washington. *Prerequisites:* completion of Lower Division courses.

MS303- Military Science III – 3
Platoon defensive and offensive measures; platoon movement techniques and command and staff functions. Incorporates all cadet skills for the Leadership Development and Assessment Course at Fort Lewis, Washington. *Prerequisites:* completion of lower division courses and permission of the Professor of Military Science.

MS401 - Military Leadership– 3
Oral and written presentation skills, including writing and reviewing selections of military correspondence; forms; presentation of performance-oriented training; conduct of briefings and meetings; analysis of organizational morals and ethics. *Prerequisites:* MS 301, 302.

MS402 - Military Leadership– 3
Military justice system and junior officer's use of it; Army personnel management, logistics system, and personal support agencies. *Prerequisites:* MS 301, 302.

MS403 - Military Science IV – 3
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, 302, and permission of the Professor of Military Science.

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 AFS 101, AFS 102, AFS 201, and AFS 202. 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

Course No.	Course Title	Hours
AS 101	*The Air Force Today I	1
	*Leadership Lab	0
AS 102	*The Air Force Today II	1
	*Leadership Lab	0
AS 201		1
	*Leadership Lab	0
AS 202		1
	*Leadership Lab	0
AS 300	*Field Training	2
AS 301		3
	*Leadership Lab	0
AS 302		3
	*Leadership Lab	0
AS 401		3
	*Leadership Lab	0
AS 402		3
	*Leadership Lab	0
	Total Required Credits	**18**

*AS 250 Field Training (6) may be substituted for AS 101, 102, 201, 202, and 300

II. **AFROTC Field Training – NOT WAIVERABLE.** Failure to successfully complete Field Training will prevent a student from earning a Minor in Military Science.

Course Descriptions
Aerospace Studies (AFS)

AFS 101 - The Air Force Today I - 1
Topics relating to Air Force and national defense. Purpose, structure, and career opportunities in United States Air Force. Written communications. Students must also take AFS 101 Laboratory.

AFS 102 - The Air Force Today II - 1
Interpersonal communications. Effective listening techniques and verbal and nonverbal communications. Practical exercises and group projects to demonstrate barriers to effective communication and techniques to overcome barriers. Students must also take AFS 102 Laboratory.

AFS 201 - The Air Force Way I -1
Historical survey of technological innovation in warfare. Emergence of air power and significance in war and national security policy implementation. Students should also take AFS 201 Laboratory.

AFS 202 - The Air Force Way II - 1
Leadership and followership traits in context of modern military force. Ethical standards of military officers and Air Force core values. Total quality management. Students must also take AFS 202 Laboratory.

AFS 250 - Field Training - 8
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. Prerequisite: permission of Professor of Aerospace Studies.

AFS 300 - Field Training - 2
Four-week training and evaluation course to select potential candidates for Professional Officer Course. Rigorous physical training. Prerequisite: permission of Professor of Aerospace Studies.

AFS 301 - Air Force Leadership and Management I - 3
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. Students must also take AFS 301 Laboratory. Classes conducted on Samford University campus.

AFS 302 - Air Force Leadership and Management II - 3
Selected Air Force officer's duties and responsibilities as subordinate leader. Responsibility and authority of Air Force officer. Students must also take AFS 302 Laboratory. Classes conducted on Samford University campus.

AFS 401 - National Security Affairs I - 3
Basic elements of national security policy and process. Roles and missions of air power in implementing national security policy. Students must also take AFS 401 Laboratory. Classes conducted on Samford University campus.

AFS 402 - National Security Affairs II - 3
Contemporary roles for military in society and current issues affecting military profession. Comparative analysis of civil and military justice systems. Students must also take AFS 402 Laboratory. Classes conducted on Samford University campus.

Non-Academic Policies

Equal Opportunity Policy

January 1, 2007
(Replaces Policy dated May 27, 2004)

See also the UAB "Sexual Harassment Policy."

Policy Statement

The University of Alabama at Birmingham (UAB) hereby reaffirms its policy of equal opportunity in education and employment.

Equal Employment Opportunity

The University of Alabama at Birmingham is expressly committed to maintaining and promoting nondiscrimination in all aspects of recruitment and employment of individuals at all levels throughout UAB. UAB prohibits, and will not tolerate, discrimination in any personnel actions, UAB programs, and UAB facilities on the basis of race, color, religion, sex, sexual orientation, national origin, disability unrelated to job performance, disabled veteran status, or Vietnam era veteran status. UAB also complies with the Age Discrimination in Employment Act which prohibits employment discrimination against persons 40 years of age or older. UAB will not tolerate any conduct by an administrator, supervisor, faculty, or staff member which constitutes any form of prohibited discrimination. All personnel actions, programs, and facilities are administered in accordance with UAB's equal opportunity commitment and affirmative action plan.

UAB will state its position as an equal opportunity/affirmative action employer in all solicitations and advertisements for employment vacancies placed by, or on behalf of, UAB. UAB will broadly publish and circulate its policy of equal employment opportunity by including a statement in all media communication and printed matter for employment purposes. Further, UAB will consider, through appropriate established procedures, complaints of any individual who has reason to believe that he or she has been affected by prohibited discrimination. See also the "Complaints" section below.

Equal Education Opportunity

As an institution of higher education and in the spirit of its policies of equal employment opportunity, UAB hereby reaffirms its policy of equal educational opportunity. UAB prohibits, and will not tolerate discrimination in admission, educational programs, and other student matters on the basis of race, color, religion, sex, sexual orientation, age, national origin, disability unrelated to program performance, disabled veteran status, or Vietnam era Veteran status. Complaints by any applicant or student who has reason to think he or she has been affected by discrimination will be considered through appropriate established procedures. See also the "Complaints" section below.

This policy must be included in all student handbooks and catalogs. The following summary statement may be printed in other UAB publications:

> *The University of Alabama at Birmingham prohibits discrimination in admission, educational programs, and other student matters on the basis of race, color, religion, sex, sexual orientation, age, national origin, disability unrelated to program performance, disabled veteran status , or Vietnam era veteran status.*

Complaints

For purposes of this policy, a "complaint" is a formal notification (usually in writing) of the belief that prohibited discrimination has occurred. Prior to filing a formal complaint, an individual is strongly encouraged to resolve a discrimination allegation through an informal process.

UAB Staff, Faculty, and Students: The procedure for resolving allegations when both the individual making the complaint and the person against whom the complaint is made are employed or enrolled at UAB is described in the sections entitled "Informal Resolution Procedure" and "Submitting a Formal Complaint."

All Others: Situations that involve other individuals (for example, visitors, patients, alumni or former students, applications for admission or employment, or former employees) who believe they have been discriminated against by someone either employed by, or enrolled, at UAB are to be address through the process entitled "Information Resolution Procedures".

Informal Resolution Procedure

(NOTE: Procedures similar to the following informal process are also included in UAB's "Problem Resolution Procedures for Non-faculty employees" and in the *UAB Faculty Handbook and Policies*.)

Although none of the actions set forth below is required before an individual is eligible to file a formal complaint, UAB encourages use of these mechanisms for informal resolution of the complaint. This list is not exhaustive. Actions taken using any of these mechanisms do not necessarily constitute a finding of discrimination.

1. **One-on-one Meeting.** The person making the complaint is encouraged to meet wit the person whose behavior is considered discriminatory to discuss the situation and to seek resolution.

2. **Intervention by Supervisor, Manger, or Department/Unit Head.** The person making the complaint is encouraged to contact his/her supervisor to request assistance with resolving the allegation of discrimination.

3. **Facilitated Conversation.** If one-on-one meetings or intervention by departmental officials as indicated above do not resolve the discrimination allegation, the individual making the complaint may contact the appropriate office to request the assistance of a "facilitator." Facilitated conversations allow the parties involved to discuss the relevant issues in order to seek mutually agreeable solutions.

Individuals may contact the following for assistance with any aspect of the Informal Resolution Procedure:

Employees may contact their assigned HRM Consultant or Human Resource Management Relations.

Faculty employees may contact the Office of the Provost or Human Resource Management Relations.

Students may contact the Office of the Vice President for Student Affairs.

Disability Support Services is available for consultation in any instances involving disabilities.

The Office of the Vice President for Equity and Diversity is also available for consultation.

Should the above mechanisms fail to resolve the matter satisfactorily, a complaint may be filed by *Staff, Faculty and Students* through the formal complaint process.

Submitting a Formal Complaint

Before filing a formal complaint of alleged discrimination, the relevant parties are encouraged to use one or more of the options outlined above for informal resolution of the allegation. If one chooses to proceed with a complaint, the compliant may be submitted in writing to one of the following, as appropriate:

Staff and Faculty

HRM Consultant/Human Resource Management Relations

Office of the Chief Human Resources Office

Office of the Provost

Office of the Vice President for Equity and Diversity

Students

Non-academic Judicial Affairs Officer

Disability Support Services (for disability discrimination)

Office of the Vice President for Student Affairs

All complaints will be handled confidentially and addressed in accordance with UAB policy. The complaints will be referred to the appropriate area for review and investigations will be conducted in a timely manner. In instances where staff, faculty and student issues overlap, the areas listed above will confer and/or work collaboratively to resolve the issue.

All individuals may use the procedures without penalty or fear of retaliation.

Also, any inquiries or complaints concerning the application of the Americans with Disabilities ACT (ADA); Title VII of the Civil Rights Act of 1964; Executive Order 11246, as mended; Title IX of the Education Amendments of 1972; the Rehabilitation Act of 1973; or other legislation and its implementing regulations as they relate to the University of Alabama at Birmingham should be directed to one of the officials listed above.

Overall Implementation

The Office of the Vice President for Financial Affairs and Administration and the office of the Provost are responsible for submitting revisions to be considered for this policy. This policy may be accessed on the web at http://www.iss.uab.edu/Pol/EeoEtab.pdf

Immunization Policy

March 20, 2002

(Replaces Policy dated December 4, 2000)

Introduction

The American College Health Association recommends that students be immunized against certain diseases. Therefore, UAB hereby establishes this policy on immunization.

For purposes of this policy, immunization against Rubeola (Red Measles) includes an initial vaccine plus a second dose of vaccine (see below).

First-time Entering UAB Students

All first-time entering students born on or after January 1, 1957, who enroll in credit courses on UAB's main campus must show proof of immunization against Rubeola (Red Measles). *(Two doses are required for proof of previous immunization: dose I must have been given at 12 months after birth or later, and Dose 2 must have been given after 1980).* Enrolling students must show proof of these immunizations with either an official certificate of immunization, a photocopy of an immunization certificate, or written documentation from their physician. If the person have never been immunized, two injections of the vaccine at least one month apart are required.

International Students and International Scholars

Because of the disparity of immunization requirements among many foreign countries, all UAB international students and international scholars are required to be immunized against Tetanus, Diphtheria, Mumps, Rubeola (Red Measles), and Rubella (German Measles). In lieu of being re-immunized, such individuals may present proof of having had such immunizations. If they do not have such proof or have not been immunized, they must be immunized against these diseases prior to attending, enrolling, or participating in UAB academic, research, observing, or clinical programs and activities.

Furthermore, all international students and international scholars must show proof of a non-reactive Tuberculin skin test (or appropriate treatment if positive) within three months prior to enrollment or visiting. Individuals who have a history of reactive Tuberculin skin testing must provide a current chest x-ray (taken since their last reactive skin test but within three months prior to enrollment or visiting) indicating that the person currently is clear of Tuberculosis.

Students Enrolled in Health-Related Schools

Because of the nature of their work, students engaged in health professional training programs could have a higher risk of contracting Rubeola, Rubella, Mumps, Tetanus, Diphtheria, Varicella (Chickenpox), Tuberculosis, and Hepatitis B. Therefore, all UAB students in the Joint Health Sciences programs and the Schools of Medicine, Dentistry, Optometry, Public Health, Nursing, and Health Related Professions are required to be immunized against Tetanus, Diphtheria, Varicella (Chickenpox), Mumps, Rubeola (Red Measles), Rubella (German measles), and Hepatitis B. In lieu of being re-immunized, such individuals may present proof of having had such immunizations. Proof must be either official medical documentation or certificates of immunization or positive titer. If students do not have such proof or have not been immunized, they must begin the immunization process against these diseases prior to being admitted, attending, enrolling, or participating in UAB academic, research, or clinical programs and activities.

Students completing their Hepatitis B series of vaccines must obtain Hepatitis B titer 1 to 2 months after their third vaccine to see if additional boosters are necessary. If the titer is negative, students will be given the option either to repeat the entire Hepatitis B series or to take 1 to 2 Hepatitis B "booster" shots to try to attain a positive titer. Students who have completed their Hepatitis B vaccine series prior to matriculation are required to take a Hepatitis B titer prior to participating in a clinical environment to see if additional boosters or labs are required.

All students enrolled in health-related schools must have had a Tuberculin skin test with negative results (or appropriate treatment if positive) within three months prior to matriculation. Students participating in clinical environments with patients will be required to obtain a two-step Tuberculin skin test before starting clinical rotations and are mandated to renew their Tuberculin one-step skin test once per year.

General

The UAB Student Health Services will provide such immunizations and tier testing on a fee-for=service basis for any student who need to meet his or her UAB immunization or titer requirements. Students may choose to fulfill these requirements at the Jefferson County Health Department or with a private physician

Individual UAB schools may impose additional immunization requirements as needed for their students.

Exceptions

Exceptions to this policy will be made only for those students who can document medical or religious contraindications to the vaccine. Such documentation must be submitted to the appropriate admissions or registration office as indicated in the procedures to implement this policy.

Implementation

The Provost (in conjunction with the Vice President/Dean, School of Medicine and the Assistant Vice President for Enrollment Services and University Registrar) is responsible for procedures to implement this policy for students in the Joint Health Sciences programs and in the Schools of Medicine, Dentistry, Optometry, Pubic Health, Nursing, and Health Related Professions.

The Vice President of Student Affairs (in conjunction with the Assistant Vice President for Enrollment Services and University Registrar and the Associate Vice President for Enrollment Management) is responsible for procedures to implement this policy for all other UAB Students.

The Office of International Scholar and Student Services is responsible for procedures to implement this policy for international students and international scholars.

Non-Resident Tuition Policy

February 9, 1990

(Edited may 18, 2007, to reflect changes in organization structure)

Introduction

The Board of Trustees has established a "non-resident Tuition Policy" which addresses non-resident tuition, certification of residency status by campus officials, and establishment of campus policies to administer an appeals process. This UAB policy implements certain provisions of that Board policy.

Policy Statement

The Division of Student affairs, the Graduate School, and the admissions/registration offices of the Health affairs schools, as appropriated, are designated as the offices empowered at UAB to determine and certify "resident" or "non-resident" student status. These offices are responsible for documenting each residency status evaluation and for maintaining the records used to substantiate that evaluation.

As the provisions of section II. of the Board policy indicate, "though certification of an address and an intent to remain in the state indefinitely are prerequisites to establishing status as a resident, ultimate determination of that status shall be made by the institution by its evaluation of the presence of absence of connections with the state of Alabama…" However, meeting the specific criteria included in section II. of the Board policy may not in all circumstances result in certification as a "resident student." Also, according to the provisions of the Board policy, UAB has been given the authority to, and has by separate Board resolution, expanded the definition of "resident student" to encompass all the categories in sections III.A. and III.B. of the Board policy.

The decision by an admission or registration officer concerning certification of residency status may be appealed in writing by the student to the Vice President for Student Affairs who may overrule the decision or may, at his or her discretion, convene a review committee composed of appropriate university officials. If the decision of the review committee is appealed by the student, the Vice President for Student Affairs may add a recommendation of concurrence or non-concurrence with the review committee and forward the findings to the President for determination. The decision of the President is final.

Drug-Free Campus Policy for Students

December 14, 1991

(Replaces Policy dated September 26, 1990.)

NOTE: See also the following related policies:
Drug-free Workplace Policy;
Drug Screening Policy for Student Athletes;
School of Medicine "Policy on Impairment and Chemical Substance Abuse";
School of Dentistry "Policy on Impairment and Chemical Substance Abuse";
School of Nursing "Policy on Impairment and Chemical Substance Abuse";

Policy Statement

This Policy is applicable to all students enrolled in credit course(s) or degree-granting programs at the University of Alabama in Birmingham and to all students receiving academic credit at UAB (other than for continuing education units) for study in a program in a foreign country conducted by UAB alone or in conjunction with a foreign university.

Unlawful possession, use manufacture, distribution, or dispensing of illicit drugs, controlled substances, or alcoholic beverages by any UAB student on UAB property or as part of any UAB-sponsored or UAB-sanctioned activity is prohibited. The legal possession, use, or distribution of alcoholic beverages on UAB property or at UAB-sponsored or UAB-sanctioned activities is governed by the UAB General Policy Regarding the Use and Consumption of Alcoholic Beverages and applicable local, state, and federal laws.

In certain situation, the University is required to report the activities prohibited by this policy to appropriate law enforcement authorities. In all cases, the University may report activities prohibited by this policy to appropriate law enforcement authorities if it appears that the activity is a violation of law

Disciplinary Actions

Violations of this policy constitute nonacademic misconduct and will be subject to established disciplinary action for nonacademic misconduct in accordance with stipulations in the ***Direction*** Student Handbook or other applicable procedures. Violations of this policy by students should be reported to the appropriate student affairs office or other office handling student nonacademic misconduct in the same manner in which other instances of nonacademic misconduct are reported.

In some cases of violation of this policy for unlawful use, a student may be given, at the discretion of the University, the option to participate satisfactorily in an approved drug or alcohol abuse assistance or rehabilitation program in lieu of dismissal. Participation in such an assistance or rehabilitation program is at the expense of the student.

Drug-free Awareness Program

At least annually, UAB shall inform students of the dangers of drug and alcohol abuse on campus, of the existence of this policy statement and its penalties for violations, and of available drug and alcohol counseling, rehabilitation, and assistance through the following activities:

1. Publication, at least annually, of this policy in appropriate student publications and distribution to students in UAB's foreign programs and to students in programs conducted in conjunction with foreign universities;

2. Inclusion of this policy in future editions of student class schedules and/or registration materials, student handbooks, and student catalogs;

3. Dissemination of this policy and of information at student orientation and assistance programs regarding the dangers of drug and alcohol use and abuse and available rehabilitation programs; and

4. Continuation, and expansion, of the UAB drug and alcohol awareness program which includes sponsorship of the "Alcohol/Drug Awareness Week" and publication of pamphlets and other materials.

Applicability to Other Policies

Other drug-free policies created to cover specific areas of the University may be more restrictive than this policy but may not be less restrictive. At a minimum, other such policies must include, or reference, the provisions of this policy. Violators will be subject to the provisions of the more stringent policy but will not be punished under more than one policy for the same offense.

This policy does not revoke or otherwise interfere with policies in the health professional schools designed to determine whether health care professionals are impaired and to offer rehabilitation, subject to the above provisions.

The wording in the "Non-academic Conduct" section of the Direction student handbook which relates to causes of dismissal due to the use, possession, etc. of illicit drugs, controlled substances, or alcoholic beverages references only certain provisions of this more extensive policy. The entire policy is applicable in all cases even if the policy itself is not printed in full.

Attachments

The "Applicable Legal Sanctions," "Drug and Alcohol Use Health Risks," and "Drug and Alcohol Counseling, Treatment, and Rehabilitation Programs" attached to this policy are a part of the policy but may be revised from time to time without affecting the policy itself.

Effective Date and Implementation

This policy is effective immediately upon its being signed by the President.

The offices of the appropriate Vice Presidents are responsible for the development and maintenance of procedures to implement this policy within their areas of responsibility.

In addition to being distributed to students on the UAB campus, this policy will be distributed to students in UAB's foreign programs and to students in programs conducted in conjunction with foreign universities. The Vice President for Student Affairs is responsible for all distributions to students covered by this policy.

Attachment A
"Applicable Legal Sanctions"
December 14, 1991

Federal Penalties and Sanctions for Illegal Possession of a Controlled Substance

(55 Federal Register 33589)

21 U.S.C. 844 (a)

First conviction: Up to 1 year imprisonment and fined at least $1,000 but not more than $100,000, or both.

After 1 prior drug conviction: At least 15 days in prison, not to exceed 2 years and fined at least $2,500 but not more than $250,000, or both.

After 2 or more prior drug convictions: At least 90 days in prison, not to exceed 3 years and fined at least $5,000 but not more than $250,000, or both.

Special sentencing provisions for possession of crack cocaine: Mandatory at least 5 years in prison, not to exceed 20 years and fined up to $250,000, or both, if:

(a) First conviction and the amount of crack possessed exceeds 5 grams.
(b) Second crack conviction and the amount of crack possessed exceeds 3 grams.
(c) Third or subsequent crack conviction and the amount of crack possessed exceeds 1 gram.

21 U.S.C. 853 (a) (2) and 881 (a) (7)

Forfeiture of personal and real property used to possess or to facilitate possession of a controlled substance if that offense is punishable by more than 1 year imprisonment. (See special sentencing provisions re: crack.)

21 U.S.C. 881 (a) (4)

Forfeiture of vehicles, boats, aircraft, or any other conveyance used to transport or conceal a controlled substance.

21 U.S.C. 844a

Civil fine of up to $10,000 (pending adoption of final regulations).

21 U.S.C. 853a

Denial of Federal benefits, such as student loans, grants, contracts, and professional and commercial licenses, up to 1 year for first offense, up to 5 years for second and subsequent offenses.

18 U.S.C. 922(g)

Ineligible to receive or purchase a firearm.

Miscellaneous

Revocation of certain Federal licenses and benefits, e.g., pilot licenses, public housing tenancy, etc., are vested within the authorities of individual Federal agencies.

Note: See Attachment A.1 for additional Federal drug trafficking penalties and information.

Note: These are only Federal penalties and sanctions. Additional *State* penalties and sanctions may apply.

Attachment A. Continued

Summary of State Penalties and Sanctions

Under Alabama law, the possession, purchase, or consumption of alcoholic beverages by a person under 21 years of age is punishable by a fine of up to $500 and by up to three months in jail. Also under Alabama law, for a first offense, unlawful possession of a controlled substance (that is, illegal drugs) may be punished by imprisonment up to ten years and a $5,000 fine and unlawful distribution of controlled substances may be punished by imprisonment up to 20 years and a $10,000 fine. Subsequent offenses may carry more stringent sentences.

Drug-Free Schools and Communities Act

Illegal drug and alcohol use, consumption, distribution, etc. on college and university campuses also are covered by the provisions of the United States Drug-Free Schools and Communities Act Amendment of 1989 (Public Law 101-226).

Legal Sanctions in Foreign Countries

Students in a program in a foreign country conducted by UAB alone or in conjunction with a foreign university also may be subject to sanctions under foreign law or under the Uniform Code of Military Justice. Although the legal sanctions described in this policy under United States law may not apply to students in a foreign country, UAB will nevertheless hold such students to the same standards as students within the United States and will take the disciplinary actions described in this policy for violations of these standards.

Attachment A.1

(55 Federal Register 33588)

Federal Trafficking Penalties

As of November 18, 1988

CSA	PENALTY 2nd Offense	PENALTY 1st Offense	Quantity	DRUG	Quantity	PENALTY 1st Offense	PENALTY 2nd Offense
I and II	Not less than 10 years. Not more than life. If death or serious injury, not less than life. Fine of not more than $4 million individual, $10 million other than individual.	Not less than 5 years. Not more than 40 years. If death or serious injury, not less than 20 years. Not more than life. Fine of not more than $2 million individual, $5 million other than individual.	10-99 gm or 100-999 gm mixture	METHAMPHETAMINE	100 gm or more or 1 kg[1] or more mixture	Not less than 10 years. Not more than life. If death or serious injury, not less than 20 years. Not more than life. Fine of not more than $4 million individual, $10 million other than individual.	Not less than 20 years. Not more than life. If death or serious injury, not less than life. Fine of not more than $8 million individual, $20 million other than individual.
			100-999 gm mixture	HEROIN	1 kg or more mixture		
			500-4,999 gm mixture	COCAINE	5 kg or more mixture		
			5-49 gm mixture	COCAINE BASE	50 gm or more mixture		
			10-99 gm or 100-999 gm mixture	PCP	100 gm or more or 1 kg or more mixture		
			1-10 gm mixture	LSD	10 gm or more mixture		
			40-399 gm mixture	FENTANYL	400 gm or more mixture		
			10-99 gm mixture	FENTANYL ANALOGUE	100 gm or more mixture		

	Drug	Quantity	First Offense	Second Offense
I and II	Others[2]	Any	Not more than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine $1 million individual, $5 million not individual.	Not more than 30 years. If death or serious injury, life. Fine $2 million individual, $10 million not individual.
III	All	Any	Not more than 5 years. Fine not more than $250,000 individual, $1 million not individual.	Not more than 10 years. Fine not more than $500,000 individual, $2 million not individual.
IV	All	Any	Not more than 3 years. Fine not more than $250,000 individual, $1 million not individual.	Not more than 6 years. Fine not more than $500,000 individual, $2 million not individual.
V	All	Any	Not more than 1 year. Fine not more than $100,000 individual, $250,000 not individual.	Not more than 2 years. Fine not more than $200,000 individual, $500,000 not individual.

[1]Law as originally enacted states 100 gm. Congress requested to make technical correction to 1 kg.

[2]Does not include marijuana, hashish, or hash oil. (See separate chart.)

Federal Trafficking Penalties - Marijuana

As of November 18, 1988

Quantity	Description	First Offense	Second Offense
1,000 kg or more; or 1,000 or more plants	Marijuana Mixture containing detectable quantity*	Not less than 10 years, not more than life. If death or serious injury, not less than 20 years, not more than life. Fine not more than $4 million individual, $10 million other than individual.	Not less than 20 years, not more than life. If death or serious injury, not less than life. Fine not more than $8 million individual, $20 million other than individual.
100 kg to 1,000 kg; or 100-999 plants	Marijuana Mixture containing detectable quantity*	Not less than 5 years, not more than 40 years. If death or serious injury, not less than 20 years, not more than life. Fine not more than $2 million individual, $5 million other than individual.	Not less than 10 years, not more than life. If death or serious injury, not less than life. Fine not more than $4 million individual, $10 million other than individual.
50 to 100 kg	Marijuana	Not more than 20 years. If death or serious injury, not less than 20 years, not more than life. Fine $1 million individual, $5 million other than individual.	Not more than 30 years. If death or serious injury, life. Fine $2 million individual, $10 million other than individual.
10 to 100 kg	Hashish		
1 to 100 kg	Hashish Oil		
50-99 plants	Marijuana		
Less than 50 kg	Marijuana	Not more than 5 years. Fine not more than $250,000, $1 million other than individual.	Not more than 10 years. Fine $500,000 individual, $2 million other than individual.
Less than 10 kg	Hashish		
Less than 1 kg	Hashish Oil		

*Includes Hashish and Hashish Oil.

(Marijuana is a Schedule I Controlled Substance)

Attachment B
"Drug and Alcohol Use Health Risks"
December 14, 1991

General

Although there has been recent change in American health habits and societal attitudes toward recreational drug and alcohol use, problems continue to exist and experimentation is starting at an earlier age. An important piece of information to surface in recent years is that even moderate, non-prescribed use of alcohol and non-prescribed use of drugs can have an adverse effect on overall health and well-being.

Consider the following facts:

1. Drinking more than one or two alcoholic beverages a week promotes more visible signs of aging;
2. Consuming one and one-half or more alcoholic beverages per day increases the risk of breast cancer;
3. Drinking alcoholic beverages poisons the heart muscle, counteracts the benefits of exercise, increases male impotence, and depresses the body's immune system;
4. Tobacco use is a contributing factor in the development of chronic bronchitis, emphysema, circulatory problems, and coronary disease, as well as being the leading cause of lung cancer;
5. Cocaine use is responsible for kidney damage, stroke, lung and heart diseases, seizures, and intense psychological problems;
6. Many forms of narcotics are highly addictive to users;
7. Marijuana use creates certain dysfunctions related to thinking, learning, and recall; aggravates asthma, bronchitis, and emphysema; contributes to fertility problems; and contributes to the development of lung cancer;
8. The non-prescribed use of tranquilizers, barbiturates, and amphetamines is dangerous and may cause major health problems, including death;
9. Extended drug and/or alcohol use may result in substance dependency and loss of control of an individual's life.

Source: Compiled by UAB Substance Abuse Program from the following resources:
Drug Data: What Everyone Needs to Know about Mood-altering Drugs, Comp Care Publications, Minneapolis.
You Are What You Drink, Allan Luks and Joseph Barbato, Villard Books, New York.
You Can Stop, Jacquelyn Rogers, Simon & Schuster, New York.

Attachment B.1
Alcohol — Effects
(55 Federal Register 33591)

Alcohol consumption causes a number of marked changes in behavior. Even low doses significantly impair the judgment and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in an accident. Low to moderate doses of alcohol also increase the incidence of a variety of aggressive acts, including spouse and child abuse. Moderate to high doses of alcohol cause marked impairments in higher mental functions, severely altering a person's ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol will produce the effects just described.

Repeated use of alcohol can lead to dependence. Sudden cessation of alcohol intake is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions. Alcohol withdrawal can be life-threatening. Long-term consumption of large quantities of alcohol, particularly when combined with poor nutrition, can also lead to permanent damage to vital organs such as the brain and the liver.

Mothers who drink alcohol during pregnancy may give birth to infants with fetal alcohol syndrome. These infants have irreversible physical abnormalities and mental retardation. In addition, research indicates that children of alcoholic parents are at greater risk than other youngsters of becoming alcoholics.

Uses and Effects of Controlled Substances

See Attachment B.2 for additional information concerning health risks involved in drug use.

Attachment B.2

(55 Federal Register 33590)

Controlled Substances - *Uses & Effects*

DRUGS/ CSA SCHEDULES		TRADE OR OTHER NAMES	MEDICAL USES	DEPENDENCE Physical	DEPENDENCE Psychological	TOLERANCE	DURATION (hours)	USUAL METHODS OF ADMINISTRATION	POSSIBLE EFFECTS	EFFECTS OF OVERDOSE	WITHDRAWAL SYNDROME
NARCOTICS											
Opium	II III V	Dover's Powder, Paregoric, Parapectolin	Analgesic, antidiarrheal	High	High	Yes	3-6	Oral, smoked	Euphoria, drowsiness, respiratory depression, constricted pupils, nausea	Slow and shallow breathing, clammy skin, convulsions, coma, possible death	Watery, eyes, runny nose, yawning, loss of appetite, irritability, tremors, panic, cramps, nausea, chills and sweating
Morphine	II III	Morphine, MS-Contin, Roxanol, Roxanol-SR	Analgesic, antitussive	High	High	Yes	3-6	Oral, smoked, injected			
Codeine	II III V	Tylenol w/Codeine, Empirin w/Codeine, Robitussin A-C, Fiorinal w/Codeine	Analgesic, antitussive	Moderate	Moderate	Yes	3-6	Oral, injected			
Heroin	I	Diacetylmorphine, Horse, Smack	None	High	High	Yes	3-6	Injected, sniffed, smoked			
Hydromorphone	II	Dilaudid	Analgesic	High	High	Yes	3-6	Oral, injected			
Meperidine (Pethidine)	II	Demerol, Mepergan	Analgesic	High	High	Yes	3-6	Oral, injected			
Methadone	II	Dolophine, Methadose, Methadose	Analgesic	High	High-Low	Yes	12-24	Oral, injected			
Other Narcotics	I II III IV V	Numorphan, Percodan, Percocet, Tylox, Tussionex, Fentanyl, Darvon, Lomotil, Talwin[1]	Analgesic, antidiarrheal, antitussive	High-Low	High-Low	Yes	Variable	Oral, injected			
DEPRESSANTS											
Chloral Hydrate	IV	Noctec	Hypnotic	Moderate	Moderate	Yes	5-8	Oral	Slurred speech, disorientation, drunken behavior without odor of alcohol	Shallow respiration, clammy skin, dilated pupils, weak and rapid pulse, coma, possible death	Anxiety, insomnia, tremors, delirium, convulsions, possible death
Barbiturates	II III IV	Amytal, Butisol, Fiorinal, Lotusate, Nembutal, Seconal, Tuinal, Phenobarbital	Anesthetic, anticonvulsant, sedative, hypnotic, antihistamine/antiemetic agent	High-Mod.	High-Mod.	Yes	1-16	Oral			
Benzodiazepines	IV	Ativan, Dalmane, Diazepam, Librium, Xanax, Serax, Valium, Tranxene-Ventrac, Versed, Halcion, Paxipam, Restoril	Anticonvulsant, sedative, hypnotic	Low	Low	Yes	4-8	Oral			
Methaqualone	I	Quaalude	Sedative, hypnotic	High	High	Yes	4-8	Oral			
Glutethimide	III	Doriden	Sedative, hypnotic	High	Moderate	Yes	4-8	Oral			
Other Depressants	III IV	Equanil, Miltown, Noludar, Placidyl, Valmid	Anticonvulsant, sedative, hypnotic	Moderate	Moderate	Yes	4-8	Oral			
STIMULANTS											
Cocaine[1]	II	Coke, Flake, Snow, Crack	Local anesthetic	Possible	High	Yes	1-2	Sniffed, smoked, injected	Increased alertness, excitation, euphoria, increased pulse rate & blood pressure, insomnia, loss of appetite	Agitation, increase in body temperature, hallucinations, convulsions, possible death	Apathy, long periods of sleep, irritability, depression, disorientation
Amphetamines	II	Biphetamine, Dexedrine, Desoxyn, Dextrostat, Obetrol	Attention defect disorders, narcolepsy, weight control	Possible	High	Yes	2-4	Oral, injected			
Phenmetrazine	II	Preludin	Weight control	Possible	High	Yes	2-4	Oral, injected			
Methylphenidate	II	Ritalin	Attention defect disorders, narcolepsy	Possible	Moderate	Yes	2-4	Oral, injected			
Other Stimulants	III IV	Adipex, Cylert, Delex, Ionamin, Melfiat, Plegine, Sanorex, Tenuate, Tepanil, Prelu-2	Weight control	Possible	High	Yes	2-4	Oral, injected			
HALLUCINOGENS											
LSD	I	Acid, Microdot	None	None	Unknown	Yes	8-12	Oral	Illusions and hallucinations, poor perception of time and distance	Longer, more intense "trip" episodes, psychosis, possible death	Withdrawal syndrome not reported
Mescaline and Peyote	I	Mescal, Buttons, Cactus	None	None	Unknown	Yes	8-12	Oral			
Amphetamine Variants	I	2,5-DMA, PMA, STP, MDA, MDMA, TMA, DOM, DOB	None	Unknown	Unknown	Yes	Variable	Oral, injected			
Phencyclidine	II	PCP, Angel Dust, Hog	None	Unknown	High	Yes	Days	Smoked, oral, injected			
Phencyclidine Analogues	I	PCE, PCPy, TCP	None	Unknown	High	Yes	Days	Smoked, oral, injected			
Other Hallucinogens	I	Bufotenine, Ibogaine, DMT, DET, Psilocybin, Psilocyn	None	None	Unknown	Possible	Variable	Smoked, oral, injected, sniffed			
CANNABIS											
Marijuana	I	Pot, Acapulco Gold, Grass, Reefer, Sinsemilla, Thai Sticks	None	Unknown	Moderate	Yes	2-4	Smoked, oral	Euphoria, relaxed inhibitions, increased appetite, disoriented behavior	Fatigue, paranoia, possible psychosis	Insomnia, hyperactivity, and decreased appetite occasionally reported
Tetrahydrocannabinol	I II	THC, Marinol	Cancer chemotherapy assistance	Unknown	Moderate	Yes	2-4	Smoked, oral			
Hashish	I	Hash	None	Unknown	Moderate	Yes	2-4	Smoked, oral			
Hashish Oil	I	Hash Oil	None	Unknown	Moderate	Yes	2-4	Smoked, oral			

1 Designated a narcotic under the CSA. 2 Not designated a narcotic under the CSA.

Attachment C

"Drug and Alcohol Counseling, Treatment, and Rehabilitation Programs"
December 14, 1991

[This page revised August 5, 1998]

Student Services

The Campus Assistance Program is designed to address the following issues: continued longitudinal needs assessments, campus community awareness, enlistment of support from all campus segments, identification of high-risk students, early intervention, development of peer counseling and support groups, and referral to on/off campus resources and treatment facilities when indicated. The following are on-campus programs available to students:

Campus Assistance Program
Wellness Center
Hill University Center—Suite 460
934-5816

UAB Mental Health Services
Center for Psychiatric Medicine
1713 Sixth Avenue South
Birmingham, Alabama 35294-0018
ACCESS line 934-7008

UAB Substance Abuse Program
401 Beacon Parkway West
Birmingham, AL 35209
917-3733

Other non-UAB, off-campus services are available in the Birmingham area and in many of the foreign countries in which UAB conducts programs of study. Such counseling, treatment, and rehabilitation services are too

numerous to list here, but anyone needing assistance with locating such off-campus or foreign country services may contact one of the programs listed above or the UAB Center for International Programs, as appropriate.

Sexual Harassment Policy

January 27, 1999

(Replaces policy dated April 17, 1996)

Introduction

The University of Alabama at Birmingham is firmly committed to providing an environment that is free of discrimination, including sexual harassment. Sexual harassment includes unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature when (l) submission to such conduct is made, either explicitly or implicitly, a term or condition of an individual's employment or academic evaluation, (2) submission to, or rejection of, such conduct by an individual is used as the basis for employment or academic decisions affecting such individual, or (3) such conduct has the purpose or effect of unreasonably interfering with an individual's work performance or of creating an intimidating or hostile working or educational environment. Such behavior may violate federal law and/or give rise to personal liability for the results of such behavior. Consequently, UAB prohibits all forms of sexual harassment and will investigate complaints thoroughly and with the utmost seriousness.

A violation of this policy may result in the taking of disciplinary action up to, and including, discharge.

Sexual Harassment in the Workplace

It is a violation of UAB policy for any employee, including faculty, to engage in sexual harassment in the workplace or in work-related situations. Employees who believe that they have been sexually harassed by a supervisor, co-worker, or other employee of UAB should report the incident promptly to the Human Resource Management Relations Office. Only Human Resource Management has the responsibility for coordinating and conducting an investigation of sexual harassment claims in the workplace and also for recommending corrective action to the UAB administration.

Sexual Harassment in the Instructional Setting

UAB prohibits sexual harassment of students by the teaching staff or other employees of UAB. For purposes of this policy, the term "teaching staff" means all those who teach at UAB and includes, but is not limited to, full-time faculty, part-time faculty, students functioning in teaching roles (such as graduate assistants), and academic administrators.

A student who believes that he or she has been sexually harassed should report the incident promptly to the Vice President for Student Affairs.

Sexual harassment by a student is considered nonacademic misconduct, and the alleged student offender will be subject to the disciplinary process contained in the *Direction: Student Handbook*.

Sexual Harassment--General

Full and prompt reporting is necessary for effective implementation of this policy, and UAB encourages such reporting. However, UAB's duty to protect employees and students exists when UAB's supervisory personnel know, or have reason to know, of unreported sexual harassment. Supervisors therefore are directed to take all appropriate steps to prevent sexual harassment in their areas of responsibility and to take corrective action, including disciplinary action, in response to inappropriate behavior which may constitute sexual harassment even in the absence of a complaint.

This policy seeks to encourage students, staff, and faculty to express freely and responsibly, through established procedure, complaints of sexual harassment. All such complaints shall be treated as confidential information and shall be disclosed only to those with a need to know as part of the investigatory and resolution process. Any act of interference, retaliation, or coercion by a UAB employee against a student or employee for using this policy interferes with such free expression and is itself a violation of this policy.

Implementation

This policy will be published regularly in the *UAB Reporter* and in the *Class Schedule*. The policy will be included in revisions of handbooks relating to staff, faculty, and students.

The Vice President for Financial Affairs and Administration is responsible for implementation of this policy as it relates to sexual harassment in the workplace. The Vice President for Student Affairs is responsible for implementation of this policy as it relates to sexual harassment in the instructional setting.

Ownership Intellectual Property Rights

UAB recognizes that research and scholarship should be encouraged and carried out without regard to financial gain from licensing fees, royalties, or other such income. However, UAB also recognizes that patentable inventions, discoveries, software programs, and other intellectual property often arise from UAB-related student efforts.

The policies governing the administration of inventions are included in the Board of Trustees Rule 509 and in the UAB Patent Policy. Other institutional policies govern other forms of intellectual property including computer software. Those policies also provide recognition and incentive to inventors and at the same time ensure that UAB shares in the rights pertaining to inventions in which it has an investment. Any income accruing to UAB is used in the furtherance of UAB's academic mission.

Disclosure of discoveries and inventions which appear to have commercial value and/or utility should be made to the UAB Research Foundation. Any such invention or discovery (1) which is the result of research carried on by, or under the direction of, any student of the University and/ or having the costs thereof paid from University funds or from funds under the control of, or administered by, the University, or (2) which is made by a student of the University and which relates to the inventor's field of study at the University, or (3) which has been developed in whole or in part by the utilization of resources or facilities belonging to the University shall be assigned to the University. Therefore, students may not themselves assign or grant any option to any such intellectual property developed during the course of their enrollment without a release from UAB.

Questions concerning intellectual property rights should be directed to the UAB Research Foundation.

Data Protection and Security Policy

March 19, 2007

(Replaces policy entitled "Electronic Data Processing Security Policy" dated August 5, 1985)

Introduction

In the course of doing business at UAB, electronic information assets (data) are created and must be protected and maintained in accordance with all applicable federal and state laws and university policies. The intent of this policy is to provide a framework that ensures that electronic data, in all of its forms, are adequately protected. This policy specifically outlines:

- The roles and responsibilities of the UAB community for data protection and security;
- Additional requirements associated with the use and maintenance of systems containing sensitive information.

Scope and Applicability of Policy

Managing and protecting data are responsibilities shared by all members of the UAB community. This policy applies to:

- All individuals (faculty/staff/students/visitors), schools, departments, affiliates, and/or other similar entities;
- All UAB data and systems including, but not limited to, centralized institutional systems, departmental united systems, systems created or operated by third part vendors under the direction of UAB, and UAB data in any and all of those systems.

Policy Statement

General Data Protection

Availability of data to the UAB community is critical to conducting business. All members of the UAB community should learn to protect their individual data and data under their control or use by viewing the online UAB General Data Security training program and periodically reviewing all applicable data security, confidentiality, and acceptable use policies.

Protection of Sensitive Data

When sensitive data are used or stored electronically, additional care must be taken to ensure security and confidentiality.

Sensitive Data Defined

Sensitive data include, but are not limited to:

- Individually identifiable information (Example: name and date of birth—see "information Disclosure and Confidentiality Policy"
- Social Security numbers
- Credit card numbers
- Driver's license numbers
- Proprietary research data
- Privileged legal information
- Data protected by law such as student and patient records

Specific Roles and Responsibilities for Protecting and Maintaining Sensitive Data

The following information is provided for members of the UAB community as a guide in understanding their roles and responsibilities in the protection of sensitive UAB data:

Data Custodians

UAB's central Information Technology (IT) unites are responsible for protecting all sensitive information maintained/stored in the institutional information systems. While it is not recommended that sensitive information be stored outside centrally maintained servers and systems, any UAB department or unit that retains sensitive UAB data on departmental/unit serves, personal computer (desk and laptop), per sonal digital assistants (PDAs), thumb drives, or computer disks also will be responsible for protecting and securing those data. In the case of information stored in department/unit systems, the department/ unit head is charged with responsibility for date protection and designated as the data custodian.

A minimal list of the Data Custodian's responsibilities may be found on the UAB UT web site http://www.uab.edu/it/datasecurity.

System Administrators

System Administrators are individuals within the central IT units or school/department units with day-to-day responsibility for maintaining information systems. They are responsible for following all data security and protection procedure and practices. (See IT Security Practices at http://www.uab.edu/it/ policies/UAB_IT_Security_Practices.doc.) systems Administrators are further responsible for reporting any data security breaches or compromises to their immediate supervisor. As required by the Data Cus todian or department head, they perform risk assessments and data backups. They also provide secure storage, execute disaster recovery plans, and provide system documentation. System Administrators successfully complete specific security and other IT training as required.

Data Users

Data Users are individuals within a department/unit who access/use UAB information systems and data. The UAB data users are responsible for following the acceptable use policies for specific systems in use as well as all other applicable policies. Data users should reuse or save sensitive data on their desktop or laptop computer without approval and appropriate security safeguards in place. Data users are fur ther charged with reporting to their supervisors or managers any activities that could compromise the protection if UAB data.

Incident Reporting and Response Relative Data Security

Any breach or compromise of UAB data must be reported immediately, especially when it involves sensitive data. Anyone who becomes aware of a breach or compromise should report the incident o his or her immediate supervisor or manager. Department/unit heads are responsible for reporting breaches to the Data Security Office in the Office of the Vice President for Information Technology. Specific procedures for reporting a suspected or actual breach/compromise of data are maintained on the Data Security web site at http://www.uab.edu/it/datasecurity/index.html. Upon receiving the report, the Data Security Office will be responsible for conducting or coordinating the investigation, making or assessing a recommendation for corrective action, reporting the incident to the Incident Response Committee or other administrative units as needed, and maintaining documentation of the incident.

Risk Assessment and Risk Management

Department/unit heads are responsible for assessing (in conjunction with UAB Information Technology) the business processes and technical risks associated with implementing any planned or proposed electronic information system or data collection system. Such risk assessments are required when sensitive data are involved and must be updated periodically. Risk assessments must identify specific procedures to manage risks. Approval for the dissemination of sensitive information will be in accordance wit the UAB Information Disclosure and Confidentiality policy.

Other Data Security Policies at UAB

Other data security policies implemented at UAB (campus-wide or locally by/for a specific department, school, or system) may be more restrictive than this UAB-wide policy but may not be less restrictive.

Implementation

Data Custodians located both centrally and within departments/units are responsible for implementation of this policy within their areas of responsibility. The Vice President for Information Technology is responsible for overall procedures related to the implementation of this policy and for providing implementation assistance to Data Custodians.

Policy Violation

A violation of this policy by employees, including faculty, shall result in disciplinary actions, up to and including discharge, according to established UAB disciplinary procedures. A violation of this policy by a student constitutes nonacademic misconduct, and the student will be subject to established disciplinary action.

See also the following:

- "Information Disclosure and Confidentiality Policy" (UAB Policy Reference Manual)
- "UAB Policy for Acceptable Use of Computer and Network Resources" (see "Acceptable Use Policy" on UAB Information Security World Wide Web site)
- "Policy for Connecting Devices to the UAB Voice, Data, and Video Network" (UAB Policy Reference Manual)
- "World Wide Web Pages Policy" (UAB Policy Reference Manual)
- Search Policy (Section 10.3 in the *You and UAB Handbook for Administrative, Professional, and Support Personnel*)
- Related UAB Information Technology procedures, standards, guidelines, and training materials
- Related UAB/UABHS HIPPA Privacy and Security Standards
- Board of Trustees Rule 1005"Owenership and Preservation of Records and Files." (The Board of Trustees of The University of Alabama Board Manual)
- Data Custodian Responsibilities (http://www.uab.edu/it)

Student E-Mail Address Policy
November 10, 2003

See also:
Electronic Data Processing Security Policy
Acceptable Use Policy (Published at "UAB Information Security" World Wide Web site)
Network Usage Guidelines (Published at "UAB DC/NS Help Desk" World Wide Web site)

Purpose

UAB provides electronic mail resources in support of its instruction, research, and service activities. The purpose of this policy is to establish the use of electronic mail (e-mail) as one of the official methods for communicating with UAB students.

Official Communications Using E-Mail Addresses

In a similar manner as mail distribution of paper communiqués to a student's "permanent" address is considered an official method for distributions to students, so also are official e-mail messages sent by UAB to a student's "@UAB.EDU" e-mail address considered an official distribution method. For purposes of this policy, "official" communiqués or e-mails as used here are those established as "official" through other approval mechanisms in place at UAB.

Student Requirements and Responsibilities

Every student enrolled at UAB must have an e-mail address that ends with "@UAB.EDU". Such an e-mail address is required for a student to register for UAB credit courses. It is the student's responsibility to obtain an official UAB e-mail address in a timely manner from the UAB e-mail registering system (BlazerID World Wide Web site). This will require the student also to have a valid, current, and reliable electronic mailbox through an Internet Service Provider (ISP) or portal, or on a server administered by the student's academic department, or on the central mail service provided by the Office of the Vice President for Information Technology. It is the student's responsibility to check his or her e-mail regularly for distribution of official UAB communiqués. UAB recommends that e-mail be checked at least once a day, when practicable. UAB is not responsible for lost, rejected, or delayed e-mail forwarded by UAB from a student's "@UAB.EDU" address to off campus or unsupported e-mail services or providers. Such lost, rejected, or delayed e-mail does not absolve the student from responsibilities associated with an official UAB communiqué sent to the student's official UAB e-mail address ("@UAB.EDU"). If there is a change in a student's e-mail address to which the"@UAB.EDU" alias address is redirected, it is the student's responsibility to make the changes in the UAB e-mail registering system.

UAB Responsibilities

UAB will ensure that all students have access to an e-mail account and will provide means for students who do not otherwise have access to e-mail-capable computers to be able to check their e-mail through such mechanisms as computer labs, the UAB libraries, and public terminals. UAB will provide mechanisms to allow students to request that their e-mail addresses not be published in a similar way that other student directory information is not published. However, unpublished e-mail addresses will be used for sending official UAB communiqués to students including communications to a group of students such as a course e-mail list. Students also will be provided mechanisms for requesting that their e-mail addresses not be used for general UAB mailings that are not official communications with students. UAB is not responsible for the handling or mishandling of students' e-mail by non-UAB providers or by unofficial (non-@UAB.EDU) e-mail servers.

Student Records Policy

The General Education Provisions Act, Section 438, as amended, and the regulations promulgated for the enforcement of the act, found at 45 Federal Register 30911, as amended at 45 Federal Register 86296, provide that all students enrolled or previously enrolled at the University of Alabama at Birmingham have the following rights in relation to their educational records:

I. General Policy

No information from records, files, or other data directly related to a student, other than public information defined below, shall be disclosed to individuals or agencies outside the university without the written consent of the student, except those disclosures set forth in paragraph IX.

II. Definition of Educational Record

Student educational records are defined as those records, files, documents, and other material which contain information directly related to students and which are maintained by UAB or a party acting for UAB. Records of instructional, supervisory, and administrative personnel which are in the sole possession of the maker and accessible only to the maker or a substitute are specifically excluded from this definition of educational record. Educational records of students are not available to UAB Police personnel, and records of the University Police, which, at UAB, are maintained separately from educational records, are maintained solely for purpose of law enforcement, and are not disclosed to individuals other than law enforcement personnel of the same jurisdiction, are not part of the educational record. Records which are made or maintained by physicians, psychiatrists, psychologists, or other professionals or paraprofessionals and which are maintained in connection with treatment and are not available to anyone else are also excluded from a student's educational record, but such records are available to another physician or appropriate professional of the student's choice if requested. Records which only contain information relating to a person after that person is no longer a student are not considered part of the student's educational record.

III. Definition of Student

For the purpose of this policy a student is defined as any individual currently or previously enrolled in any academic offering of UAB. It does not include prospective students.

IV. Public Information

The following is a list of public information which may be made available by the university without prior consent of the student and which is considered part of the public record of the student's attendance: Name, telephone number, email address, date and place of birth, major field of study, participation in officially recognized activities and sports, dates of attendance, degrees and awards received, and institution most recently previously attended. The information will not be made available if a student directs a written instruction to the appropriate records official prior to the end of the registration period for any given term.

V. Types and Location of Records

Each school maintains a file on each student enrolled, containing applications, grade reports or other performance evaluations, and correspondence. Some departments or programs maintain similar files. The counseling service, career services, and financial aid offices maintain a file on students who use those services. The university has designated the following officials as responsible for student records within their respective areas: University Registrar, Room 207, Hill University Center; Dean, Graduate School, Room 511, Hill University Center; Director of Student Affairs, School of Dentistry, Room 207, School of Dentistry Building; Assistant Director/Registrar,, School of Medicine, Room P100, Volker Hall; Director of Student Affairs, School of Optometry, Room 104, School of Optometry Building; The above shall hereinafter be referred to as "records officials." Each of these records officials is responsible for maintaining a listing of student records within such records official's area of responsibility, indicating the location and general content of the records. Any student request concerning records or files, including requests that public information not be disclosed, requests for disclosure to third parties, and requests for access by the student should be directed to this official. Forms for all such requests may be obtained from these officials. These persons will also act as hearing officers when the content of a record is challenged as provided below.

VI. Disclosure of Student Records to the Student

The student is accorded the right to inspect, in the presence of a university staff member, records, files, and data primarily and directly related to the student. To inspect a file a student should go to the office of the appropriate records official and initiate a request in writing. If a student desires to obtain copies of the items in the educational record rather than personally reviewing the record, the written request to the records official for copies must be signed and notarized to prevent disclosure to persons other than the student. A time for inspection shall be granted within forty-five days of the date of the request, and copies will be mailed within the same time period. Copies shall be made and provided to the student at a cost to the student equal to actual cost of reproduction and payable in advance.

The right of inspection does not include financial statements of parents, confidential recommendations placed in the file prior to January 1,1975, provided that such recommendations were solicited with a written assurance of confidentiality or sent or retained with a documented understanding of confidentiality and used only for the purpose solicited, and other confidential recommendations, access to which has been waived by the student in accordance with paragraph VIII.

VII. Challenging the Contents of the Record

UAB will respond to any reasonable request for an explanation or interpretation of any item in a student's file. Requests for such explanation or interpretation should be addressed in writing to the appropriate records official. If, after inspecting a record, a student believes that information contained in the educational record is inaccurate or misleading or violates his or her privacy, the student may request that the record be amended by presenting such request in writing to the appropriate records official. A request that the record be amended shall be answered by the records official within fifteen days of its receipt with information that the record has been amended as requested or that the record has not been amended and that the student has a right to a hearing on the matter. A written request for a hearing should be addressed to the appropriate records official as listed in V, who will set a date and time for hearing with reasonable notice of same to the student within forty-five days of receiving the request. The request for hearing should identify the item or items in the file to be challenged and state the grounds for the challenge, e.g., inaccuracy, misleading nature, inappropriateness. The records official shall examine the contested item, shall hear the person responsible for placing the item in the file if appropriate, and shall examine any documents or hear any testimony the student wishes to present. A student may be assisted or represented by individuals of his or her choice, including an attorney, at his or her own expense. The records official may decide that the item should be retained or that it should be deleted or altered. The records official shall issue a written decision, based solely on the evidence presented at the hearing, within ten days of the conclusion of the hearing. If the decision is adverse to the student, the notice of decision shall include a statement that the student has the right to place a statement in the record commenting on the information and/or setting forth reasons for disagreeing with the decision.

VIII. Waiver of Access

UAB may request that a student waive the student's right to inspect confidential recommendations respecting that student's application for admission, provided that the student be notified, upon request, of the names of all those providing the recommendations, the recommendations are used only for the purpose solicited, and the waiver is not a condition of admission or any other benefit. Confidential recommendations respecting application for employment or the receipt of an honor or other recognition may also be waived.

A waiver may be revoked with respect to actions occurring after revocation by so notifying the records official in writing.

IX. Providing Records to Third Parties

The general policy of UAB is to refuse access to or disclosure of information from student records to third parties without the written consent of the student. Should a student wish to have such records released, a signed and dated written request must be directed to the proper records official, specifying the records to be released, the reason for release, the party or class of parties to whom records are to be released, and a request for copies to the student, if desired. UAB will then transfer or grant access to the information. The transferred information shall contain a statement that the information may be used by the receiving party or, if an organization, by its officers, agents, and employees for the purpose requested, but that the party shall not transfer the information to any other party except with the written consent of the student. A charge not to exceed the actual cost of reproduction will be assessed against the student when copies are made for the party or the student.

Student records are available to the following persons with the accompanying conditions without written consent of the student:

1. Instructional or administrative personnel whose duties include responsibilities to students which in the institution reasonably require access to student records.
2. Officials of other schools in which a student seeks to enroll. UAB will make a reasonable attempt to notify the student of the transfer, as well as the student's right to a copy, upon request, and the right to a hearing to challenge the contents if desired.
3. Certain representatives of federal departments or agencies or state educational authorities as provided by the law. In absence of consent or specific authorization by federal law of the collection of personally identifiable data, data collected by excepted officials shall be protected in a manner which will not permit personal identification of students and parents by other than those officials, and personally identifiable data shall be destroyed when no longer needed.
4. Financial aid officers or their assistants in connection with the application for or receipt of financial aid, provided that personally identifiable information may only be disclosed for the purpose of determining eligibility, amount, and conditions and to enforce terms and conditions.

1. Organizations conducting studies for administrative evaluation, tests, etc., provided that studies are not conducted in a manner which will permit personal identification of students or their parents by other than representatives of the organization and that the information will be destroyed when no longer needed for the purposes collected.
2. Accrediting organizations.
3. Other appropriate persons in an emergency to protect health or safety of students or others. In determining appropriateness of disclosure, consideration will be given to the seriousness of the threat to health or safety of the student and others, the need for information to meet the emergency, whether the parties requesting information are in a position to deal with the emergency, and the extent to which time is of the essence.
4. In response to lawful subpoena or court order.

UAB will keep a record, indicating the name and legitimate interest, of all disclosures except those made to a student, those made pursuant to written consent, those designated as public information, and those made to persons at UAB with a legitimate educational interest. This record of disclosure will become a part of the educational record, subject to inspection and review.

X. The UAB Student Records Policy shall be published in the catalog of each school, and a copy shall be displayed prominently on a bulletin board in each school. In order to comply with the requirement that UAB give annual notice of this policy to enrolled students, a short notice of the policy shall be included in the Class Schedule for each term.

XI. Any student who believes that UAB has violated his or her right to access or privacy of educational records as established by the Family Education Rights and Privacy Act of 1974, as amended, the accompanying regulations published at 45 Federal Register 30911, as amended at 45 Federal Register 86296, and this policy may address a complaint to:

The Family Educational Rights and Privacy Act Office
Department of Education
400 Maryland Avenue, S.W.
Washington, D.C. 20202

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Sheila Sanders, Vice President, Information Technology

John F. Amos, O.D., Dean, School of Optometry
Doreen Harper, PhD, RN, Dean, School of Nursing
Harold P. Jones, Ph.D., Dean, School of Health Professions
Bert Brouwer, M.F.A., Dean, School of Arts and Humanities
Max Michael III, M.D., Dean, School of Public Health
Huw F. Thomas, B.D.S., M.S., Ph.D. Dean, School of Dentistry
Robert R. Rich, M.D., Dean, School of Medicine
Michael J. Froning, Ed.D., Dean, School of Education
David R. Klock, Ph.D., Dean, School of Business
Bryan D. Noe, Ph.D., Dean, Graduate School
Linda C. Lucas, Ph.D., Dean, School of Engineering
Lowell E. Wenger, Ph.D., Dean, School of Natural Sciences and Mathematics
Jean Ann Linney, Ph.D., Dean, School of Social and Behavioral Sciences
Harlan M. Sands, Associate Provost, Administration and Financial Affairs
Claire Peel, Ph.D., Interim Associate Provost, Faculty Development and Faculty Affairs
Glenna G. Brown, Ph.D., Associate Provost for Planning and Analysis
Philip Way, Ph.D., Associate Provost for Undergraduate Programs

UAB Faculty

Abbott, Gypsy, Professor of Counselor Education; 1982
B.A. (Birmingham-Southern), M.A., Ph.D. (Alabama)

Abrams, Derek, Instructor of Quantitative Methods; 2006
B.S. (U. S. Military Academy), M.B.A. (Harvard)

Abrams, Marshall, Assistant Professor of Philosophy; 2007
A.B. (California-Davis), Ph.D. (Chicago)

Acre, Gail, Nurse Practitioner; 2003
M.S.N (UAB)

Adkins, Nell, Associate Professor of Accounting; 1999
B.S., M.A. (Southern Mississippi), Ph.D. (Florida State), C.P.A.

Agresti, David G., Professor Emeritus of Physics; 1969
B.S. (Ohio State), M.S., Ph.D. (California Institute of Technology)

Ahmad, Wajih, Assistant Professor of Health Education; 1998
B.S., M.Ph., Ph.D. (UAB)

Akella, N. Shastry, Research Assistant Professor of Biomedical Engineering; 2006
B.S. (Jawaharlal Nehru Technological Univ.), MSBE, Ph.D. (UAB)

Akins, Perry Wesley, Assistant Professor of Anthropology and Social Work: 1999
B.S.S.W. (Auburn), M.S.W. (Florida State)

Aldridge, Jerry T., II, Professor of Early Childhood Education; 1986
B.S. (Livingston), M.A., M.A., Ed.D. (Alabama)

Alexander, James R., Professor of Art; 1978
B.Arch., M.Arch. (Cornell), M.F.A. (Louisiana State)

Alexandrov, Anne, Professor of Nursing; 2007
Ph.D. (Texas Woman's Univ)

Allison, Carol, Instructor of Special Education (Visual Impairment); 1999
B.A. (Northwestern State), M.A. (UAB)

Allison, Kelly, Professor of Theatre; 1998
B.F.A. (Minnesota), M.F.A. (Stephens)

Amsbary, Jonathan H., Associate Professor of Communication Studies; 1988
B.A. (New Mexico), M.A., Ph.D. (Indiana)

Amsler, Charles D., Jr., Professor of Biology; 1994
A.B. (Duke), M.S. (North Carolina-Wilmington), Ph.D. (California-Santa Barbara)

Amthor, Franklin R., Professor of Psychology; Associate Professor of Biomedical Engineering; 1981
B.S. (Cornell), Ph.D. (Duke)

Anayiotos, Andreas, Associate Professor of Biomedical Engineering;
Associate Professor of Materials Science and Engineering; 1991
B.S. (Boston), M.S., Ph.D. (Georgia Institute of Technology)

Anderson, Daniel, Associate Professor of English; 2007
B.A. (Cincinnati), M.A. (Johns Hopkins)

Andrews, J. Barry, Professor of Materials Science and Engineering;
Chair, Department of Materials Science and Engineering; 1976
B.S. (UAB), M.E., Ph.D. (Florida), P.E. (Alabama)

Andrews, Lucy G., Instructor of Biology; 1998
A.B. (Agnes Scott), Ph.D. (Duke)

Angner, Erik, Assistant Professor of Philosophy and of Economics; 2005
B.A. (Uppsala), Ph.D. (Pittsburgh)

Angus, Robert A., Professor of Biology; 1978
B.S. (Wisconsin), Ph.D. (Connecticut)

Appel, Susan, Associate Professor of Nursing; 2003
Ph.D. (North Carolina, Chapel Hill)

Appleton, Joseph H., Distinguished Service Professor Emeritus of Civil Engineering; 1959
B.C.E. (Auburn), M.S., Ph.D. (Illinois), P.E. (Alabama)

Ard, Jamy D., Assistant Professor, Clinical Nutrition and Dietectics Program; 2003
M.D. (Duke)

Arnold, N. Scott, Professor of Philosophy; 1982
B.A. (Pennsylvania), M.A., Ph.D. (Massachusetts)

Atigadda, Venkatram, Research Assistant Professor of Chemistry; 2003
B.S. (Gulbarga-India), M.S., Ph.D. (Auburn)

Austin, Erika L., Assistant Professor of Sociology; 2006
B.A. (James Madison), M.A. (Michigan), PhD. (Virginia)

Autrey, Pamela S., Assistant Professor of Nursing and Assistant Dean of Student Affairs; 2001
B.S.N. (UAB), MBA (Jacksonville State), M.S.N. (UAB), Ph.D. (UAB)

Ayers, Douglas J., Associate Professor of Marketing; 1999
B.S., M.B.A. (Tennessee), Ph.D. (Kentucky)

Bach, Rebecca Ann, Associate Professor of English; 1994
B.A., M.A., Ph.D. (Pennsylvania)

Baggott, Joseph E., Assistant Professor, Nutritional Biochemistry & Genomics Program; 1979
Ph.D. (UAB)

Bailey, Kirstin, Research Assistant Professor of Psychology; 2005
B.S. (Birmingham Southern), M.S. (Washington State), Ph.D. (Washington State)

Bak, Nelleke, Associate Professor of Philosophy; 2004
B,A, (Pretoria), M.A. (Natal), Ph.D. (University of the Western Cape)

Baker, Lisa, Assistant Professor of Anthropology and Social Work, 2005
B.A. (Georgia), M.S.W. (Florida International Univ), Ph.D. (Georgia)

Baker, Tracey A., Associate Professor of English; 1984
B.A. (Indiana), M.A., Ph.D. (Purdue)

Baldwin, Debra, Nurse Practitioner; 2002
M.S.N. (UAB)

Ball, Karlene K., Professor of Psychology; Director, Center for Research in Applied Gerontology; 1996
M.S., Ph.D. (Northwestern)

Bangalore, Purushotham, Assistant Professor of Computer and Information Sciences; 2003
B.E. Bangalore-India), M.S., Ph.D. (Mississippi State)

Barnard, Anthony C. L., Professor Emeritus of Computer and Information Sciences; 1968
B.S. (Birmingham, England), M.B.A. (UAB), Ph.D., D.Sc. (Birmingham, England)

Barstow, Elizabeth A., Assistant Professor, Occupational Therapy Program; 2004
B.S., O.T. (Minnesota)

Basilico, David Anthony, Associate Professor of English; Director, Linguistics Program, Department of English; 1993
B.A. (Brown), Ph.D. (Arizona)

Baulos, Doug, Instructor of Art; 2003
B.F.A. (UAB), M.F.A.(New Orleans)

Bauman, Robert P., Professor Emeritus of Physics; 1967
B.S., M.S. (Purdue), Ph.D. (Pittsburgh)

Beard, Craig W., Senior Assistant Librarian, Reference Services, Mervyn H. Sterne Library; 1990
B.A. (Harding), M.A.R. (Harding Graduate School of Religion), M.L.S. (Florida State)

Bej, Asim K., Professor of Biology; 1991
B.Sc., M.Sc. (Calcutta), Ph.D. (Louisville)

Bellis, Peter, Professor of English; Chair, Department of English; 2007
B.A. (Amherst), M.A. (Texas-Austin), M.A., Ph.D. (Johns Hopkins)

Benditt, Theodore M., Professor of Philosophy; 1978
B.A., J.D., M.A. (Pennsylvania), Ph.D. (Pittsburgh)

Berner Weiss, Eta S., Professor, Health Informatics Program; 1986
Ed.D. (Harvard)

Betros, Cecil, Instructor of Communication Studies; 2007
B.S., M.S. (University of Montevallo), D.Sc. (Columbia Pacific)

Bickel, C. Scott, Assistant Professor, Physical Therapy; 2002
Ph.D. (Georgia)

Biasini, Fred J., Research Associate Professor of Psychology; 1983
B.A., M.S., (St. Vincent), Ph.D. (Alabama)

Blacksher, Manford, Instructor of English; 2007
B.A., M.A. (McGill), Ph.D. (Trinity College-Dublin)

Blokh, Alexander, Professor of Mathematics; 1992
Ph.D. (Kharkov State)

Blythe, Clyde Randolph, Jr., Instructor of English; 2000
B.A., M.A.(UAB), M.F.A., Ph.D.(Alabama)

Bodin, Mary Beth, Nurse Practitioner; 2004
M.S.N. (UAB)

Bodon, Jean, Professor of Communication Studies; 1997
B.A. (Birmingham-Southern), M.A. (Alabama), Ph.D. (Florida State)

Boggiano, Mary M., Associate Professor of Psychology; 2000
B.A., M.A., Ph.D. (Texas at El-Paso)

Bokobza, Serge, Associate Professor of French; 1980
Licence-ès-Lettres, Maîtrise-ès-Lettres (Paris-X: Nanterre), M.A., Ph.D. (Illinois)

Bolus, Norman E., Assistant Professor, Nuclear Medicine Technology Program; 1999
CNMT, M.P.H. (University of Alabama at Birmingham)

Bos, Theodore, Professor of Quantitative Methods; 1982
B.Ec. (Queensland), Ph.D. (Illinois)

Bosarge, Pennie, Nurse Practitioner; 1991
B.S.N. (Samford), M.S.N. (UAB)

Bowen, Pamela, Nurse Practitioner; 2005
B.S.N. (UAB), B.B.A. (Faulkner), M.S.N. (UAB)

Boylan, Douglas M., Research Professor of Mechanical Engineering; 2005
B.S., M.S., Ph.D. (Tulane)

Brande, Scott, Associate Professor of Geology; 1979
B.S. (Rochester), M.S. (California Institute of Technology), Ph.D. (SUNY-Stony Brook)

Brasher, Holly, Assistant Professor of Government; 2003
B.A. (Louisiana State), M.A. (Florida), PhD., (North Carolina)

Braswell, Jennifer J., Assistant Professor; 2004
Ph.D. (Miami)

Braswell, Mary Flowers, Professor of English; 1969
B.A., M.A. (Alabama), Ph.D. (Emory)

Britt, Sylvia E., Assistant Professor of Nursing; 2007
D.S.N. (UAB)

Brock, Joanne, Assistant Professor, Cytotechnology Program; 2006
M.A.E. (UAB)

Brooks, Michael, Assistant Professor of Counseling; 2004
B.A. (Moreouse College), M.A. (Central Florida), Ph.D. (Central Florida)

Brooks, C. Michael, Professor, Department of Nutrition; 1975
Ed.D. (Kentucky)

Brouillette, Christie G., Research Professor of Chemistry; 2006
B.S. (West Florida), Ph.D. (Kansas)

Brouillette, Wayne J., Professor of Chemistry; 1979
B.S. (West Florida), M.S., Ph.D. (Kansas)

Brouwer, Bert, Professor of Art; Dean, School of Arts and Humanities; 1997
B.S., M.F.A. (Wisconsin)

Brown, M. Amanda, Assistant Professor, Clinical Nutrition and Dietetics Program; 1999
Ph.D. (Auburn)

Brown, Kathleen, Chair and Professor of Nursing; 1979
Ph.D. (Case Western Reserve)

Brown, Richard, Nurse Practitioner; 2005
B.S. (Birmingham Southern), B.S.N., M.S.N. (UAB), J.D. (Birmingham School of Law)

Bryant, Barrett R., Professor of Computer and Information Sciences; Associate Chair, Department of Computer and Information Sciences; 1983
B.S. (Arkansas-Little Rock), M.S., Ph.D. (Northwestern)

Buckner, Ellen, Professor of Nursing; 1975
B.A. (Duke), B.S., M.S., M.S.N., D.S.N. (Alabama)

Burkhardt, Jeffrey H., Associate Professor, Health Services Administration; 2000
PhD. (Michigan)

Burns, Joseph C., Associate Professor of Elementary and High School Education; 1984
B.S. (Grove City), M.Ed., Ed.D. (Georgia)

Burns, Richard M., Professor of Finance; 1987
B.S. (Alabama), M.B.A. (UAB), Ph.D. (Georgia)

Burrage, Joe, Associate Professor of Nursing; 2002
B.S.N M.S.N. (Northwestern State) Ph.D. (Georgia State)

Butcher, Daniel L., Instructor of English; 2001
B.A.(Mississippi), M.L.I.S., M.A.(Louisiana State)

Butler, Sheila W., Assistant Librarian, Reference Services, Mervyn H. Sterne Library; 1996
B.A. (Lambuth), M.E.D. (Montevallo), M.L.S. (Alabama)

Calhoun, Charles, Associate Professor of Elementary Education; Chair, Department of Curriculum and Instruction; Assistant Dean, Urban Education; 1989
B.A. (Earlham), M.Ed., Ph.D. (Georgia State)

Callahan, Dale, Assistant Professor of Electrical and Computer Engineering; Director, Information Engineering and Management Program; 2000
B.E.E. (Auburn), MBA (Auburn-Montgomery), M.S.E.E. (UAB), Ph.D. (Alabama)

Camata, Renato, P., Associate Professor of Physics; 2000
B.S. (Universidade de Sao Paulo), M.S., Ph.D. (California Institute of Technology)

Camp, Sherman V., Instructor of English; 2006
B.S. (Alabama), M.A. (UAB)

Candelaria, Leonard A., Associate Professor of Music, Artist in Residence; 2002
B.M.(North Texas), M.M.(North Texas), D.M.A.(Northwestern)

Cannon, Joseph J., Assistant Professor of Theatre; 2004
B.A. (UAB), M.F.A. (Arizona)

Carter, William C., Distinguished Professor of French; 1975
A.B., M.A. (Georgia), Ph.D. (Indiana)

Cartright, Pamela C., Assistant Professor, Radiation Therapy Program; 2001
M.A.Ed. (UAB)

Catledge, Shane A., Research Assistant Professor of Physics; 2004
B.S. (California State –Sacramento), Ph.D. (UAB)

Cazamias, James U., Research Assistant Professor of Mechanical Engineering; 2006
B.A. (Rice), Ph.D. (Texas, Austin)

Centeno, María Jesús, Instructor of Spanish; 2006
B.A. (Universidad Autónoma de Madrid), M.A. (Georgia)

Chambless, Krista, Visiting Assistant Professor of Spanish; 2006
B.A., M.A., Ph.D. (Alabama)

Chang, Pi-Ling, Associate Professor, Nutritional Biochemistry & Genomics Program; 1994
Ph.D. (UAB)

Chang, Tracey F. H., Associate Professor of Labor Studies; 1998
B.A. (Fu-Jen University-Taiwan), M.A., Ph.D. (Iowa)

Channer, Lisa E., Visiting Associate Professor of Theatre; 2006
B.A. (Massachusetts), M.F.A. (Yale)

Chapman, Alison, Associate Professor of English; 2000
B.A. (Davidson), M.A., Ph.D. (Pennsylvania)

Chapman, Gary H., Professor of Art; 1990
B.S., B.A. (Berea), M.F.A. (Cranbrook Academy)

Chawla, Krishan Kumar, Professor of Materials Science and Engineering; 1998
B.S. (Banaras Hindu, India), M.S., Ph.D. (Illinois, Urbana-Champaign)

Cheng, Chih Hsiung (Gary), Assistant Professor of Mechanical Engineering; 2001
B.S. (Tamkang University, Taiwan) M.S., Ph.D. (Kansas)

Cheng, Tyrone, Assistant Professor of Anthropology and Social Work; 2002
B.S.W (Hong Kong Shue Yan College), M.S.W., PhD., (Alabama)

Chernov, Nikolai, Professor of Mathematics; 1994
M.S., Ph.D. (Moscow State, Russia)

***Cheung, Herbert C., Professor of Biochemistry; 1969**
A.B., M.S., Ph.D. (Rutgers)

Chiasera, Janelle M., Associate Professor, Clinical Laboratory Sciences Program; 2006
Ph.D. (Ohio State)

Childs, Gwendolyn, Assistant Professor of Nursing; 2007
Ph.D. (South Carolina)

Christensen, Lois M., Associate Professor of Elementary Education; 1996
B.A.Ed., M.A.Ed. (Arizona State), Ph.D. (Texas A&M)

Clair, Jeffrey M., Associate Professor of Sociology; 1988
B.A., M.A. (San Diego State), Ph.D. (Louisiana State)

Channer, Lisa E., Visiting Associate Professor of Theatre; 2006
B.A. (Massachusetts), M.F.A. (Yale)

Chapman, Alison, Associate Professor of English; 2000
B.A. (Davidson), M.A., Ph.D. (Pennsylvania)

Chapman, Gary H., Professor of Art; 1990
B.S., B.A. (Berea), M.F.A. (Cranbrook Academy)

Chawla, Krishan Kumar, Professor of Materials Science and Engineering; 1998
B.S. (Banaras Hindu, India), M.S., Ph.D. (Illinois, Urbana-Champaign)

Cheng, Chih Hsiung (Gary), Assistant Professor of Mechanical Engineering; 2001
B.S. (Tamkang University, Taiwan) M.S., Ph.D. (Kansas)

Cheng, Tyrone, Assistant Professor of Anthropology and Social Work; 2002
B.S.W (Hong Kong Shue Yan College), M.S.W., PhD., (Alabama)

Chernov, Nikolai, Professor of Mathematics; 1994
M.S., Ph.D. (Moscow State, Russia)

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Childs, Gwendolyn, Assistant Professor of Nursing; 2007
Ph.D. (South Carolina)

Christensen, Lois M., Associate Professor of Elementary Education; 1996
B.A.Ed., M.A.Ed. (Arizona State), Ph.D. (Texas A&M)

Clair, Jeffrey M., Associate Professor of Sociology; 1988
B.A., M.A. (San Diego State), Ph.D. (Louisiana State)

Clark, Diane E., Assistant Professor, Physical Therapy; 2007
D.Sc.P.T. (UAB)

Cleeland, Eunice, Clinical Nurse Specialist; 1997
B.S.N. (Samford), M.S.N. (Alabama)

Clements, Kay, Associate Professor, Health Information Management Program; 2004
M.A. (UAB)

Cockerham, William C., Distinguished Professor of Sociology; Professor of Medicine; Co-Director, Center for Social Medicine and STDs; 1991
B.A. (Oklahoma), M.A., Ph.D. (California-Berkeley)

Collier, Stephen N., Professor, School of Health Professions; 2003
Ph.D. (Georgia State)

Collins, Loucrecia, Associate Professor of Educational Leadership; 2000
B.S., M.A., Ed.D. (Mississippi State)

Collins, Robert J., Associate Professor of English; Director, Creative Writing Program; 1980
A.B. (Xavier), M.A., Ph.D. (Ohio State)

Conley, Carolyn A., Professor of History; 1985
B.A. (Duke), M.A. (Chicago), Ph.D. (Duke)

Conner, David A., Professor Emeritus of Electrical and Computer Engineering; 1978
B.E.E., M.S. (Auburn), Ph.D. (Georgia Institute of Technology), P.E. (Alabama, Georgia, Tennessee, Kentucky)

Cook, Edwin, Associate Professor of Psychology; V
Vice Chair and Director of Undergraduate Studies, Department of Psychology; 1986
B.S. (Pennsylvania), M.S., Ph.D. (Wisconsin)

Cook, Masako, Instructor of Japanese; 2007
B.A. (Kanto Gakuin, Japan)

Copeland, Philip L., Associate Professor of Music; 2001
B.M.(Mississippi), M.M.(Mississippi College), D.M.A.(Southern Baptist Theological Seminary)

Copes, J. Heath, Assistant Professor of Justice Sceinces; 2001
B.S. (Southwestern Louisiana), M.A., PhD., (Tennessee)

Corbetta, Renato, Assistant Professor of Government; 2005
B.A. (Portland State), M.A. (Portland State), Ph.D. (Arizona)

Cormier, Loretta, Associate Professor of Anthropology and Social Work; 2000
B.S. (Florida), M.A. (UAB), Ph.D. (Tulane)

Cotten, Shelia, Associate Professor of Sociology; 2005
B.A. (Wake Forest), M.S. (NC State), Ph.D. (NC State)

Cowart, Larry, Assistant Professor of Finance; 2007
B.S. (Athens), M.B.A. (Samford), Ph.D. (Georgia)

Cox, James E., Associate Professor of Psychology; 1981
B.A. (Lawrence), M.S., Ph.D. (Yale)

Cox Edmondson, Vickie, Associate Professor of Management; 1996
B.A. (Spelman), M.B.A. (Mercer), Ph.D. (Georgia)

Cracco, Derek A., Associate Professor of Art; 1999
B.F.A. (Louisiana State), M.F.A. (Syracuse)

Crawford, Martin, Professor Emeritus of Materials and Mechanical Engineering; 1968
B.S., M.S. (Tennessee), Ph.D. (Georgia Institute of Technology), P.E. (Alabama)

Crigler, Paul, Instructor of Information Systems; 2004
B.S. (Auburn), B.S. (UAB), M.S. (UAB)

Cuevas, Eugene, Instructor of English; 2005
B.A. (Southern Mississippi), M.A. (UAB)

Culver, Sarah E., Associate Professor of Economics; Director of Undergraduate Programs, School of Business; 1993
B.S., M.A., Ph.D. (Houston)

Cummings, Cathleen, , Assistant Professor of Art History; 2005
B.A. (Mills), M.A. (Birkbeck), M.A. (Ohio State)

Cusic, Anne M., Assistant Professor of Biology; 1988
B.S. (UAB), M.S. (Samford), Ph.D. (UAB)

Dahle, Karen B., Associate Professor of Special Education, 1999
B.S. (James Madison), M.S. (Radford), Ed.D. (VA Polytec Institute State)

Dale, Louis, Professor of Mathematics; Vice President for Equity and Diversity; 1973
B.A. (Miles), M.S. (Atlanta), Ph.D. (Alabama)

Dallow, Jessica, Associate Chair, Department of Art and Art History; 2002
B.A. (San Diego), M.A., Ph.D. (North Carolina-Chapel Hill)

Daniélou, Catherine F., Associate Professor of French;
Associate Dean, School of Arts and Humanities; 1990
Licence-ès-Lettres, Maîtrise-ès-Lettres (Sorbonne), M.A., Ph.D. (Michigan State)

DasGupta, Manabendra, Associate Professor of Economics; 1990
B.A., M.A. (Calcutta), M.A., Ph.D. (Southern Methodist)

Dashiff, Carol, Professor of Nursing; 1991
Ph.D. (Florida State)

Davis, Colin J., Professor of History; 1991
B.A. (Warwick-Coventry, England), M.A., Ph.D. (SUNY-Binghamton)

Davis, Mardell, Assistant Professor of Nursing; 1981
B.S.N., M.S.N. (Illinois) Ph.D.(UAB)

Dean, Derrick R., Associate Professor of Materials Science and Engineering; 2004
B.S., M.S. (Tuskegee), Ph.D. (Illinois, Urbana-Champaign)

DeLuca, Maria, Assistant Professor, Nutritional Biochemistry & Genomics Program; 2003
Ph.D. (Calabria, Italy)

DeLuca, Stephanie C., Assistant Professor, Occupational Therapy; 2007
Ph.D. (UAB)

Deupree, Joy, Clinical Nurse Specialist, Director of Student Affairs for School of Nursing; 1999
BSN, MSN, FNP (UAB)

DeVore, Todd E., Instructor of Physics; 1998
B.S. (Lewis and Clark), M.S.. Ph.D. (UAB)

DiCecco, Jennifer, Nurse Practitioner; 2007
M.S.N. (Arizona)

DiMicco, Wendy, Assistant Professor of Nursing; 1970
B.S. (Barry), M.S. (Alabama) Ph.D. (UAB)

Dinavahi, Surya, Research Associate Professor of Mechanical Engineering; 2007
B.Tech. (Indian Institute of Technology, Kharagpur), M.S. (Univ. of Iowa), M.S.E., Ph.D. (Univ. of Michigan, Ann Arbor)

Dixon, William Scott, Instructor of Mathematics; 2007
B.S. (Jacksonville State), M.Ed. (Alabama)

Dobbins, Allen C., Associate Professor of Biomedical Engineering; 1996
B.Sc. (Dalhousie), B.S.E., M.S.E., Ph.D. (McGill)

Dorsey, Amanda D., Instructor, Health Informatics Program; 2006
M.S. (UAB)

Doss, Harriet E. Amos, Associate Professor of History; 1978
B.A. (Agnes Scott), M.A., Ph.D. (Emory)

Downs, Chuck, Nurse Practitioner; 1997
M.S.N. (UAB)

Drace, William R., **Assistant Professor, Surgical Physician Assistant Program; 2003**
B.S. (University of Alabama at Birmingham), M.A.Ed. (University of Phoenix)

Drentea, Patricia, Associate Professor of Sociology; 1999
B.A. (Wisconsin), M.A., Ph.D. (Ohio State)

Druschitz, Alan, Professor of Materials Science and Engineering; 2007
B.S., Ph.D. (Illinois Institute of Technology))

Dudley, Patricia, Nurse Practitioner; 2000
B.S.N. (Samford), M.S.N. (UAB)

Duncan, W. Jack, Professor of Management and University Scholar,
Professor of Health Care Organization and Policy,; 1972
B.S. (Samford), M.B.A., Ph.D. (Louisiana State)

Dwyer, Zoe. B., Assistant Professor of Materials Science and Engineering;
Director, Outreach and Retention for School of Engineering; 1999
B.S., M.S., Ph.D. (UAB)

Dyer, Florence, Nurse Practitioner; 2008
M.S.N. (UAB)

Earwood, Martha, Instructor of Justice Sciences; 2003
B.S., M.S. (Georgia State)

Eason, Mona L., Associate Professor of Early Childhood Education, Associate Dean, School of Education; 1990
B.S, M.A. Ph.D. (UAB)

Eaves, Yvonne, Assistant Professor of Nursing; 2006
Ph.D. (Michigan)

Eberhardt, Alan, Associate Professor of Biomedical Engineering;
Undergraduate Program Director for Biomedical Engineering; 1991
B.S., M.S. (Delaware), Ph.D. (Northwestern)

Edmonds, Thomas P., Alumni and Friends Professor of Accounting; 1986
B.B.A. (Georgia State), M.B.A. (St. Mary's), Ph.D. (Georgia State)

Eidson, Christopher A., Assistant Professor, Occupational Therapy; 2006
M.S. (UAB)

Elder, Keith T., Assistant Professor, Health Sciences Program; 2007
Ph.D. (Maryland)

Ellis, Cassandra, Assistant Professor of English; 2002
A.B. (Syracuse), M.A., Ph.D. (Columbia)

Emfinger, Kay, Assistant Professor of Early Childhood Education; 2003
B.S., M.A.Ed. (Auburn), Ph.D. (UAB)

Epps, Chad A., Assistant Professor, Nurse Anesthesia Program; 2007
M.D. (Medical College of Georgia)

Eto, Isao, Associate Professor, Nutritional Biochemistry & Genomics Program; 1980
Ph.D. (UAB)

Evans, Retta , Associate Profesor of Health Education; 2003
B.S., (Fort Hays), M.S. (Northeastern), Ph.D. (Aarkansas)

Faki, Belita, Instructor of Spanish; 2005
B.A. (Cornell), M.A. (Middlebury)

Fambrough, R. Eugene, Instructor of Music; Assistant Director of Bands; 2001
B.M.(Georgia), M.M.(East Carolina), D.M.A.(Alabama)

Farr, Kenneth, Clinical Nurse Specialist; 2001
B.S.N. (UAB) M.S.N. (Georgia State University)

Fast, Vladimir G., Associate Professor of Biomedical Engineering; 1997
Diploma in Physics (Moscow Institute), Ph.D. (Moscow Institute for Physics and Technology)

Federov, Vladimir V., Research Assistant Professor of Physics; 2007
M.S. (Moscow Institute of Physics), Ph.D. (Russian Academy of Science)

Feldman, Dale S., Associate Professor of Biomedical Engineering; 1985
B.S. (Northwestern), M.S. (Dayton), Ph.D. (Clemson)

Feldman, Glenn A., Associate Professor of Labor Studies; 1996
B.A., B.S. (Birmingham-Southern), M.A., Ph.D. (Auburn)

Fernandez, Jose R., Associate Professor, Physiology and Metabolism; 2001
Ph.D. (Pennsylvania State)

Fischer, Robert, U. Jr., Professor of Biology; Chair, Department of Biology; 2008
B.S. (Syracuse), M.A. (Buffalo), Ph.D. (South Carolina)

Foley, Kathleen T., Assistant Professor, Occupational Therapy; 2006
M.S. (Indiana)

Foote, Anne, Chair & Associate Professor of Nursing; 1974
D.S.N. (UAB)

Ford, Matthew P., Assistant Professor, Physical Therapy; 2001
Ph.D. (Pennsylvania State)

Fordham, Pam, Assistant Professor of Nursing; 1979
B.S.N., M.S.N., D.S.N. (Alabama)

Foster, Linda, Assistant Professor of Counseling; 2007
B.A. (Samford), M.A., E.d.S, (UAB) Ph.D. (Mississippi State)

Fouad, Fouad H., 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 A&M), P.E. (Alabama, Texas)

Frankilin, Gregory A., Assistant Professor of Electrical and Computer Engineering; 2007
BSEE, MSEE, Ph.D. (UAB)

Friend, Edward M. III, Assistant Professor of Business Law and Executive in Residence; 2005
B.A., J.D. (University of Alabama)

Fritsma, Margaret G., Associate Professor, Medical Technology Program; 1979
M.A. (University of Alabama at Birmingham)

Frost, Linda, Associate Professor of English; Associate Director, University Honor's Program; 1993
B.A. (Bowling Green), Ph.D. (SUNY-Stony Brook)

Fu, Yuchang, Assistant Professor, Nutritional Biochemistry & Genomics; 2003
Ph.D. (Kyushu)

Gainer, Hugh S., Associate Professor, Health Services Administration; 1987
M.S.H.A (UAB)

Gainey, Denise, Associate Professor of Music; 2002
B.M.E.(Florida State), M.M.(North Texas), D.M.A.(Kentucky)

Gargiulo, Richard M., Professor of Special Education; 1982
B.A. (Hiram Scott), M.S. (Wisconsin-Milwaukee), Ph.D. (Wisconsin)

Garrie, Robert L., Associate Professor, Health Information Management Program; 2008
M.P.A. (Roosevelt)

Garvey, W. Timothy, Professor, Nutrition Sciences; 2003
M.D. (St Louis University)

Gauld, Virginia D., Assistant Professor of Educational Leadership; Vice President for Student Affairs; 1977
B.S. (Emory), M.A., Ph.D. (Alabama)

Gee, Morris, Instructor of Management; 2001
B.S., M.A. (Alabama)

Geiger, Brian, Professor of Health Education; 1993
B.S. (Tulane), M.A. (Loyola), Ed.D. (South Carolina)

George, Paul, Assistant Professor; 2007
B.S.M.E., M.S.B.E. (UAB)

Gerakines, Perry A., Associate Professor of Physics; 2000
B.S., Ph.D. (Rensselaer Polytechnic Institute)

Ghanta, Vithal K., Professor of Biology; 1971
B.S. (G.C.W. College), M.S. (Banarus Hinda), Ph.D. (Southern Illinois)

Giardina, Carol, Associate Professor of Health Sciences; 2006
Ph.D. (UAB)

Gilchrist, Roger. L., Instructor of Biology; 1999
B.S., M.S., Ph.D. (Wyoming)

Ginter, Peter M., Professor of Health Care Organizations and Policy;
Professor of Management; Chair; Department of Health Care Organizations and Policy; 1983
B.S., M.B.A. (Auburn), Ph.D. (North Texas State)

Glandon, Gerald L., Professor, Health Services Administration; 2001
Ph.D. (Washington)

Goldman, Jay, Professor of Engineering; Dean Emeritus, School of Engineering; 1984
B.S.M.E. (Duke), M.S.M.E. (Michigan State), D.Sc. (Washington), P.E. (Missouri)

Goldman, Renitta L., Professor of Special Education; 1984
B.A. (Washington), M.S. (North Carolina State), Ph.D. (Missouri)

Goodwin, Linda B., Instructor, Occupational Therapy; 2007
B.S. (Florida Gulf Coast)

Gower, Barbara A., Professor, Physiology and Metabolism Program; 1997
Ph.D. (Utah)

Graham, Cecilia L., Associate Professor, Physical Therapy; 2003
Ph.D. (Texas A&M)

Granger, Wesley M., Associate Professor, Respiratory Therapy Program; 1996
Ph.D. (Medical College of Georgia)

Grant, Joan, Professor of Nursing; 1980
B.S.N. (North Alabama), M.S.N., D.S.N. (Alabama)

Graves, David E., Professor of Chemistry; Chair, Department of Chemistry; 2003
B.S., Ph.D. (UAB)

Graves, Lila V., Associate Professor of English; 1976
B.S., M.A., Ph.D. (Auburn)

Gray, Gary M., Professor of Chemistry; 1983
B.S., Ph.D. (Lehigh)

Gray, Jeffrey, G., Associate Professor of Computer and Information Sciences; 2002
B.S., M.S. (West Virginia), Ph.D. (Vanderbilt)

Gray, Richard A., Associate Professor of Biomedical Engineering, 1997
B.S. (Bucknell), M.S., Ph.D. (Virginia)

Green, David G., Instructional Associate Professor of Electrical and Computer Engineering; 1981
B.S.E., M.S.E (Alabama in Huntsville)

Greenup, Patsy E., Associate Professor, Medical Technology Program; 1977
Ph.D. (UAB)

Greenwood, Rebecca, Assistant Professor of Nursing; 2004
B.S.N (New Hampshire) M.S.N (Northeastern) Ph.D (Boston College)

Grice, Steve, Associate Professor of Accounting; 2007
B.S. (Troy), Ph.D. (Alabama)

Griffin, Robin D., Research Associate Professor of Materials Science and Engineering; 1990
B.S., M.S. (Illinois, Urbana-Champaign), Ph.D. (Wisconsin-Madison)

Griffith, Nicole, Assistant Professor of English; 2005
B.A. (Georgia College and State University), M.A. (Northwestern)

Grimes, Gary J., Professor of Electrical and Computer Engineering;
Executive Director, Center for Telecommunications Education and Research; 1994
B.S. (Colorado), M.S. (Wisconsin), Ph.D. (Colorado)

Grimes, John W., Instructor in Justice Sciences; 2000
B.S. (UAB), J.D. (Alabama)

Grimes, L. Kyle, Associate Professor of English; 1990
B.A. (Dartmouth), M.A., Ph.D. (Illinois)

Grimes-Robison, Cindy, Clinical Nurse Specialist; 2003
B.S.N (UAB) M.S.N (Troy State)

Gunther-Canada, Wendy A., Professor of Government; 1993
B.A. (Utah), M.A., Ph.D. (Rutgers)

Haeberle, Steven H., Associate Professor of Government; Chair, Department of Government; 1982
B.A. (Marshall), M.A., M.A., Ph.D. (Duke)

Hainzl, Christian, Assistant Professor of Mathematics; 2005
M.Sc. (Tech. Univ. Vienna), Ph.D. (Vienna)

Hall, Cheryl D., Assistant Professor of Theatre; 1989
B.A. (Southern Illinois), M.F.A. (Arizona)

Hall, Jeremy, Assistant Professor of Government; 2005
B.A. (Central College), M.P.A., (Kentucky), Ph.D. (Kentucky)

Hall, Randa S., Instructor, Health Services Administration; 2001
M.S.H.A. (UAB)

Hallman, Melanie, Nurse Practitioner; 1998
M.S.N. (UAB)

Hamilton, Harry, Instructor of Sociology; 2005
B.A. (UAB), M.A. (UAB), Ph.D. (UAB)

Hamilton, Tracy P., Associate Professor of Chemistry; 1991
B.S., M.S., Ph.D. (Arkansas)

Hamilton, Virginia V., Professor and University Scholar Emerita of History; 1965
B.A., M.A. (Birmingham-Southern), Ph.D. (Alabama)

Hammack, Glenn G., Assistant Professor, Health Informatics Program; 2007
O.D. (Ferris State)

Han, Youngshook, Assistant Professor of Nursing; 1996
B.S.N. (Chungnam), M.S.N., Ph.D. (Wisconsin)

Handley, Donna, Assistant Professor of Government; 2004
B.A. (Auburn), M.P.A. (Auburn), Ph.D. (Auburn)

Haque, Akhlaque, Associate Professor of Government 1995
B.S. (Dhaka), M.A., Ph.D. (Cleveland State)

Harper, Doreen, Professor and Dean of Nursing; 2005
B.S.N. (Cornell), M.S.N. (Catholic Univ.), Ph.D. (Maryland)

Harrelson, Paul M., Assistant Professor, Surgical Physician Assistant Program; 1999
M.P.A.S. (Nebraska)

Harper, Jennifer, Assistant Professor; 2005
B.A. (Troy State), M.S. (Alabama), M.S.C.E., Ph.D. (UAB)

Harris, Audrey, Assistant Professor, Radiography Program; 2001
M.A.Ed. (UAB)

Harris, Bernard, Instructor, Physical Therapy; 1991
M.A.C.N. (UAB)

Harris, Linda S., Associate Librarian; Head, Reference Services, Mervyn H. Sterne Library; 1984
B.A. (Stillman), M.S.L.S. (Atlanta)

Harris, Tina M., Instructor of English, 2003
B.A.(Montevallo), M.A.(UAB)

Harrison, Joseph G., Associate Professor of Physics; 1986
B.S. (Texas A&M), M.S., Ph.D. (Wisconsin)

Harrison, Lynda, Professor of Nursing; 1997
Ph.D. (Tennessee)

Harrison, Richard H., II, Assistant Librarian, Reference Services, Mervyn H. Sterne Library; 1990
B.A. (The College of Wooster), M.L.S. (Vanderbilt)

Harvey, Jeremy, Research Assistant Professor of Mechanical Engineering; 2006
B.M.E., M.S.M.E., Ph.D. (Georgia Institute of Technology)

Hogan, Beverly, Clinical Nurse Specialist; 2000
B.S.N. M.S.N (UAB)

Holcomb, Lygia, Associate Professor of Nursing; 2006
D.S.N. (UAB)

Holcombe, Mark, Instructor of Philosophy; 2007
B.A. (Winthrop), M.A. (Georgia State)

Holmes, Robert E., Professor of Management; 1999
B.B.A. (Texas), M.B.A. (North Texas), Ph.D. (Arkansas)

Holt, R. Lynn, Assistant Professor, Genetic Counseling Program; 2007
M.S. (South Carolina)

Holt, Susan S., Associate Librarian; Head, Cataloging, Technical Services, Mervyn H. Sterne Library; 1977
B.A. (Winthrop), M.Ln. (South Carolina), M.A. (Presbyterian School of Christian Education), B.S. (UAB)

Houser, Howard W., Professor, Health Services Administration; 1970
Ph.D. (Iowa)

Houser, Shannon, Assistant Professor, Health Information Management Program; 2004
M.P.H. (University of Alabama at Birmingham), Ph.D. (UAB)

Hubbard, Ron, Associate Professor of Theatre; 1998
B.M., M.S. (North Texas), M.A. (Texas Women's), Ph.D. (Texas Tech)

Huechtker, Edward D., Associate Professor, Surgeon Physician Assistant Program; 2002
Ph.D. (Kennedy-Western)

Humber, Michael W., Assistant Professor, Nurse Anesthesia Program; 2003
M.N.A. (UAB)

Hunter, Gary R., Professor of Physical Education; 1984
B.S. (Eastern Michigan), M.A., Ph.D. (Michigan State)

Huntley, Horace H., Assistant Professor of History; 1976
B.A. (Minnesota), M.A. (Syracuse), Ph.D. (Pittsburgh)

Hurst-Wajszczuk, Kristine, Assistant Professor of Music; 2007
B.M., M.M. (Westminster Choir-Rider), D.M.A. (Colorado-Boulder)

Hutchings, John William, Professor of English; 1981
A.B. (Transylvania), M.A., Ph.D. (Kentucky)

Hutchison, Jeanne S., Assistant Professor of Mathematics; 1970
B.S. (Creighton), M.A., Ph.D. (California-Los Angeles)

Hawk, James F., Lecturer Emeritus in Physics; 1956
B.A. (Virginia), A.M. (Washington)

Helms, Sara, Assistant Professor of Economics; 2007
B.A. (St. Mary's College of Maryland), M.A., Ph.D. (Maryland)

Heimburger, Douglas C., Professor, Clinical Nutrition and Dietetics; 1982
M.D. (Vanderbilt)

Henn, Martha, Senior Assistant Librarian, Reference Services, Mervyn H. Sterne Library; 1995
B.A. (Earlham), M.L.S. (Indiana), M.A. (Emory)

Hernandez, S. Robert, Professor, Health Services Administration; 1973
D.P.H. (North Carolina at Chapel Hill)

Hesse, Brian, Professor Emeritus of Anthropology and Social Work; 1979
B.A. (Columbia College), MPhil (Columbia), Ph.D. (Columbia)

Hester, Donna J., Associate Professor of Physical Education; 1983
B.S., M.A., Ph.D. (Ohio State)

Hicks, Kristine K., Research Assistant Professor of Biomedical Engineering; 1997
B.S. (Central Arkansas), Ph.D. (Arkansas for Medical Sciences)

Hickson, Mark, III, Professor of Communication Studies; 1987
B.S., M.A. (Auburn), M.A. (Mississippi State), Ph.D. (Southern Illinois)

Hill, Aubrey, Research Assistant Professor of Computer and Information Sciences; 2000
M.S. (Mississippi State), M.S. (Jackson State), Ph.D. (UAB)

Hill, Gail, Associate Professor of Nursing; 1984
Ph.D. (UAB)

Hilton, David, Assistant Professor of Physics; 2007
B.S., M.S. (Rochester), M.S., Ph.D. (Cornell)

Hitchcock, Wilbur A., Professor of Civil, Construction and Environmental Engineering; 2005
B.S. (U.S. Military Academy), M.E.C.E., Ph.D. (Texas A&M)

Hodgens, Bart, Research Assistant Professor; 2005
B.A., M.A. (Auburn), Ph.D. (Auburn)

Hoff, Ann K., Assistant Professor of English; 2003
B.A.(Columbia), M.A., Ph.D.(CUNY)

Hoffman, Jacqueline, Nurse Practitioner; 2006
M.S.N. (New York)

Hogan, Beverly, Clinical Nurse Specialist; 2000
B.S.N. M.S.N (UAB)

Holcomb, Lygia, Associate Professor of Nursing; 2006
D.S.N. (UAB)

Holcombe, Mark, Instructor of Philosophy; 2007
B.A. (Winthrop), M.A. (Georgia State)

Holmes, Robert E., Professor of Management; 1999
B.B.A. (Texas), M.B.A. (North Texas), Ph.D. (Arkansas)

Holt, R. Lynn, Assistant Professor, Genetic Counseling Program; 2007
M.S. (South Carolina)

Holt, Susan S., Associate Librarian; Head, Cataloging, Technical Services, Mervyn H. Sterne Library; 1977
B.A. (Winthrop), M.Ln. (South Carolina), M.A. (Presbyterian School of Christian Education), B.S. (UAB)

Houser, Howard W., Professor, Health Services Administration; 1970
Ph.D. (Iowa)

Houser, Shannon, Assistant Professor, Health Information Management Program; 2004
M.P.H. (University of Alabama at Birmingham), Ph.D. (UAB)

Hubbard, Ron, Associate Professor of Theatre; 1998
B.M., M.S. (North Texas), M.A. (Texas Women's), Ph.D. (Texas Tech)

Huechtker, Edward D., Associate Professor, Surgeon Physician Assistant Program; 2002
Ph.D. (Kennedy-Western)

Humber, Michael W., Assistant Professor, Nurse Anesthesia Program; 2003
M.N.A. (UAB)

Hunter, Gary R., Professor of Physical Education; 1984
B.S. (Eastern Michigan), M.A., Ph.D. (Michigan State)

Huntley, Horace H., Assistant Professor of History; 1976
B.A. (Minnesota), M.A. (Syracuse), Ph.D. (Pittsburgh)

Hurst-Wajszczuk, Kristine, Assistant Professor of Music; 2007
B.M., M.M. (Westminster Choir-Rider), D.M.A. (Colorado-Boulder)

Hutchings, John William, Professor of English; 1981
A.B. (Transylvania), M.A., Ph.D. (Kentucky)

Hutchison, Jeanne S., Assistant Professor of Mathematics; 1970
B.S. (Creighton), M.A., Ph.D. (California-Los Angeles)

Hwang, Sean-Shong, Professor of Sociology; 1988
B.A. (National Taiwan), M.A. (Waterloo), Ph.D. (Texas A&M)

Hyatt, Robert M., Associate Professor of Computer and Information Sciences; 1988
B.S., M.S. (Southern Mississippi), Ph.D. (UAB)

Ibelema, Minabere, Associate Professor of Communication Studies; 1995
B.A. (Wilberforce), M.A., Ph.D. (Ohio State)

Irving, Howard L., Professor of Music; 1981
B.Mus. (Centenary), M.M., Ph.D. (Louisiana State)

Ito, Yasushi, Research Assistant Professor of Mechanical Engineering; 2006
B.E., M.S., Ph.D. (Tohoku University, Japan)

Ivankova, Nataliva V., Associate Professor of Educational Phychology; 2004
B.S. (Ukraine), M.A. (Nebraska-Omaha), M.A. (Nebraska-Lincoln), Ph.D. (Ukraine, Ph.D. (Nebraska-Lincoln)

Ivey, Jean, Associate Professor; 2002
D.S.N. (UAB)

Jack, Eric, Associate Professor of Management; 2001
B.S. (Georgia Institute of Technology), M.B.A. (Wright State), Ph.D. (Cincinnati)

Jannett, Thomas C., Professor of Electrical and Computer Engineering; 1984
B.S.E., M.S.E. (UAB), Ph.D. (Auburn)

Janowski, Gregg M., Associate Professor of Materials Science and Engineering; 1990
B.S., M.S., Ph.D. (Michigan Technological)

Jeff, Linda H., Associate Professor, Medical Technology Program; 1979
M.A. (University of Alabama at Birmingham)

Jenkins, David T., Associate Professor of Biology; 1974
B.S., Ph.D. (Tennessee)

Jenkins, Gavin R., Assistant Professor, Occupational Therapy; 2003
M.A. (London Guildhall)

Johnson, Marlene, Assistant Professor of Theater; 2006
B.A. (Asbury), M.A. (Miami-Oxford), M.F.A. (Virginia Commonwealth)

Jennings, Patricia R., Professor, Surgical Physician Assistant Program; 2003
M.H.S. (Duke University), Dr. P.H. (University of Kentucky)

Johnson, Vicki Y., Assistant Professor of Nursing; 1999
B.S.N., M.S.N (Texas) Ph.D. (Texas at San Antonio)

Johnson, Walter, Instructor of Mathematics; 2002
B.S.EE. (Auburn), M.A.Ed. (UAB)

Johnston, Allen, Assistant Professor of Information Systems; 2007
B.S. (LSU), M.B.A., Ph.D. (Mississippi)

Johnstone, John K., Associate Professor of Computer and Information Sciences; 1994
B.S. (Saskatchewan), M.S., Ph.D. (Cornell)

Jolly, Peggy B., Professor of English; Director, Freshman Composition, Department of English; 1976
B.A. (Jacksonville), M.A. (Samford), Ph.D. (Alabama)

Jones, Daniel D., Professor Emeritus of Biology; 1970
B.S., M.S. (Purdue), Ph.D. (Michigan State)

Jones, Harold P., Professor, School of Health Professions; 2001
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Jones, James R., Associate Professor Emeritus of Electrical and Computer Engineering; 1981
B.S.E.E., M.S.E.E. (Texas A&M), P.E. (Alabama, Mississippi, California, Texas)

Jones, Warren T., 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)

Jukkala, Angela, Assistant Professor; 2006
Ph.D. (Minnesota)

Jun, Ho-Wook, Assistant Professor of Biomedical Engineering; 2006
BS, MS (Hanyang University, China), Ph.D. (Rice)

Kahn, Shirley Salloway, Assistant Professor of Educational Leadership; Vice President for Development, Alumni, and External Relations; 1981
B.S., M.A., Ph.D. (Alabama)

Kamii, Constance, Professor of Early Childhood Education; 1984
B.S., M.A., Ph.D. (Michigan)

Kang, Duck-Hee, Professor of Nursing & Marie O'Koren Endowed Chair; 1997
Ph.D. (Wisconsin)

Kapoor, Rakesh, Assistant Professor of Physics; 2005
B.Sc, M.Sc. (Delhi), Ph.D. (Bombay)

Karpeshina, Yulia, Professor of Mathematics; 1995
M.S., Ph.D. (Saint Petersburg, Russia)

Kasman, Yakov, Assistant Professor of Music; Artist in Residence 2002
B.M. (Music College of Moscow Conservatory), M.M., D.M.A. (Moscow State Conservatory)

Kawai, Ryoichi, Associate Professor of Physics; 1991
B.S., M.S., Ph.D. (Waseda, Japan)

Keith, Jeanette N., Associate Professor, Clinical Nutrition and Dietetics; 2007
M.D. (Indiana University School of Medicine)

Keitt, Andrew, Associate Professor of History; 1999
B.A. (Duke), M.A., Ph.D. (UC-Berkeley)

Keltner, Norman, Professor of Nursing; 1990
B.S.N., M.S.N. (Fresno), Ed.D. (San Francisco)

Kendrick, Charles P., Assistant Professor, Nurse Anesthesia Program; 2005
Ph.D. (South Alabama)

Kennedy, Karen, Associate Professor of Marketing; 2001
B.S.(Blue Mountain), M.S. (Florida State), M.B.A. (Georgia State), Ph.D. (South Florida)

Kerley, Kent, Assistant Professor of Justice Sciences; 2005
B.A. (East Tennessee State), M.A. (Tennessee), Ph.D. (Tennessee)

Key, Susan, Associate Professor of Management; 1995
B.A., J.D., M.B.A. (Illinois), Ph.D. (Pittsburgh)

Khaled, Mohammad A., Professor, Public Health Nutrition Program; 1977
Ph.D. (London)

Kilgo, Jennifer L., Professor of Special Education; 1995
B.A. (Auburn), M.Ed., M.Ed. (UAB), Ed.D. (Alabama)

Kim, Jong-Eun, Research Assistant Professor of Mechanical Engineering; 2003
B.S., M.S. (Hanyang University, Korea), Ph.D. (University of California-Davis)

Kim, Sue J., Assistant Professor of English; 2003
B.A.(Dartmouth), M.A., Ph.D.(Cornell)

Kincaid, Harold, Professor of Philosophy; Chair, Department of Philosophy; 1983
B.A., M.A., Ph.D. (Indiana)

King, Judith L., Associate Professor of Labor Studies; Director, Center for Labor Education and Research; 1981
B.A. (Michigan State), M.Ed., M.A. (Illinois)

Kirby, Jason, Assistant Professor of Civil, Construction and Environmental Engineering; 2005
B.S. (Auburn), M.S., Ph.D. (Alabama)

King, Pamela, Instructor of History; 2004
B.A. (Samford), M.A. (UAB)

Kirkland, Lynn, Associate Professor of Early Childhood; 1998
B.S., M.A., Ed.S. (UAB), Ed.D. (Alabama)

Kitchin, Elizabeth M., Assistant Professor, Clinical Nutrition and Dietetics Division; 1997
R.D., M.S. (Virginia Polytech)

Klock, David R., Professor of Finance; Dean, School of Business; 2008
B.S. (Northeastern), M.S., Ph.D. (Illinois)

Knowles, Ian W., Professor of Mathematics; 1979
B.Sc. (Adelaide), M.Sc., Ph.D. (Flinders-South Australia)

Kohler, Maxie P., Associate Professor of Educational Psychology; 1991
B.S. (Univ. Miss. for Women), M.S., Ph.D. (Mississippi State)

Koomullil, Roy, Assistant Professor of Mechanical Engineering; 2002
B.Tech. (Mahatma Gandhi University, India), M.Tech. (Indian Institute of Technology, India), Ph.D. (Mississippi State)

Koskinen, Karla, Assistant Professor of Theater; 2007
B.A. (Marquette), M.F.A. (Illinois State)

Krannich, Larry K., Professor Emeritus of Chemistry; 1969
B.S., M.S. (Illinois State), Ph.D. (Florida)

Kraus, David W., Associate Professor of Biology; 1990
B.S. (Delaware), Ph.D. (Clemson)

Kravchuk, Elena, Instructor of Mathematics; 2002
M.S. (Donetsk State – Ukraine), Ph.D. (NASU, Donetsk – Ukraine)

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B.A., M.S. (Indiana Institute of Technology), Ph.D. (Andhra)

Kurata, Marilyn J., Associate Professor of English; Director of Core Curriculum Enhancement; 1978
B.S. (Carnegie Mellon), M.A., Ph.D. (Wisconsin)

Kyle, Chris, Assistant Professor of Anthropology and Social Work; 2000
B.A. (Ft. Lewis College), M.A., M.Phil., Ph.D. (Columbia)

LaGory, Mark, Professor of Sociology; Chair, Department of Sociology; Professor of Urban Affairs; 1980
B.A., M.A., Ph.D. (Cincinnati)

Laken, Debra E., Associate Professor, Respiratory Therapy Program; 1999
M.A. Ed. (UAB)

Lalor, Melinda M., Associate Professor of Civil, Construction and Environmental Engineering; Associate Dean of Engineering; Assistant Professor of Environmental Health Sciences; Director, Environmental Health Engineering Graduate Program; 1989
B.S. (Birmingham-Southern), M.S.C.E. (UAB), Ph.D. (Vanderbilt)

Laughlin, Steven G., Associate Librarian, Administrative Services, Mervyn H. Sterne Library; 1977
B.B.A., M.L.S. (Texas), M.P.A. (UAB)

Lawson, Christopher M., Professor of Physics; 1993
B.S. (Oklahoma State), M.S. (Colorado), Ph.D. (Oklahoma State)

Ledbetter, Bonnie M., Associate Librarian, Reference Services, Mervyn H. Sterne Library; 1971
B.A. (Beloit), M.S. (Florida State)

Lee, Brian, Instructor of Finance; 2006
B.S. (Auburn), M.B.A. (UAB)

Lee, Loretta, Nurse Practitioner; 2002
M.S.N. (UAB)

Lee, Seung-Dong, Professor of Economics; 1979
B.A., M.A. (Korea), M.A., Ph.D. (Southern Methodist)

Lesnick, Daniel R., Associate Professor of History; 1980
B.A. (Oberlin), M.A., Ph.D. (Rochester)

Lewis, Angela K., Assistant Professor of Government; 2003
B.A. (Alabama), M.P.A., PhD., (Tennessee)

Lewis, Roger T., Professor Emeritus of Mathematics; 1975
A.B. (Tennessee), M.S. (Florida Institute of Technology), Ph.D. (Tennessee)

Liber, George O., Professor of History; 1987
B.A. (Indiana), M.A. (Harvard), Ph.D. (Columbia)

Lindquist, Charles A., Associate Professor Emeritus of Justice Sciences;
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B.A. (Hartwick), A.M. (Temple), Ph.D. (Pennsylvania)

Link, Dale, Nurse Practitioner; 2007
M.S.N. (UAB)

Linney, Jean Ann, Professor of Psychology; Professor of Sociology;
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A.B. (Hobart & William Smith College), M.A. , Ph.D. (Illinois)

Linville, Jason, Instructor of Justice Sciences; 2004
Ph.D. (UAB)

Littlefield, David L., Professor of Mechanical Engineering; 2005
B.S., M.S., Ph.D. (Georgia Institute of Technology)

Liu, Liang, Research Assistant Professor of Biology; 2006
B.S., M.S. (Yangzhou, China), Ph.D. (Uppsala)

Liu, Ray H., Professor Emeritus of Justice Sciences; Professor of Chemistry;
Director, Graduate Program in Forensic Science; 1984
LL.B. (Central Police University, Taiwan), Ph.D. (Southern Illinois)

Loder, Tondra, Assistant Professor of Foundations of Education; 2003
B.S. (Birmingham-Southern), M.P.P. (Chicago), Ph.D. (Northwestern)

Long, Jennifer M., Assistant Librarian, Reference Services, Mervyn H. Sterne Library; 1997
B. S. (Bowling Green), M.L.S. (Kent State)

Long, Sheri Spaine, Associate Professor of Spanish; Chair, Department of Foreign Languages and Literatures; 1992
B.A., M.A. (Iowa), Ph.D. (California-Los Angeles)

Lowman, John D., Assistant Professor, Physical Therapy; 2005
Ph.D. (Virginia Commonwealth)

Lowther, Christopher, Assistant Professor of Art; 2007
B.A., M.S., M.F.A. (Indiana)

Lucas, Linda C., Professor of Biomedical Engineering; Dean, School of Engineering; 1982
B.S. (Alabama), M.A., M.S., B.S.E., M.S.E., Ph.D. (UAB)

Lucius, Aaron L., Assistant Professor of Chemistry; 2006
B.S. (Oregon State), Ph.D. (Washington U.)

Mack, Marianne, Associate Professor of Communication Studies; 2001
B.A. (Hollins), M.Ed.(Harvard), M.F.A.(Florida State)

Macrina, David M., Professor of Health Education; Chair, Department of Human Studies; 1988
B.S. (Siena), M.S. (Massachusetts), Ph.D. (Illinois)

Manning, Maryann M., Professor Emeritus of Elementary Education; 1972
B.F.A. (South Dakota), M.Ed. (Wayne State), Ed.D. (Nebraska)

March, Joe L., AssociateProfessor of Chemistry; 1999
B.S., M.S. (Southwestern Texas), Ph.D. (Texas)

Marion, Ken R., Professor of Biology; Chair, Department of Biology;
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A.B., Ph.D. (Washington)

Marstrander, Jon R., Instructor of Electrical and Computer Engineering; 2005
B.S.E.E., M.S.E.E. (UAB)

Martin, James C., Associate Professor of Physics; 1980
B.S. (Florida State), Ph.D. (Georgia Institute of Technology)

Martin, Kathleen, Assistant Professor of Early Childhood Education; 1999
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Martin, Warren S., Professor of Marketing; 1979
B.A. (Southern Methodist), M.B.A., Ph.D. (Texas)

Martin-Ogunsola, Dellita L., Professor of Spanish; Interim Director, African American Studies Program; 1976
B.A. (Louisiana State), M.A., Ph.D. (Ohio State)

Mastin, Charles, Research Professor of Mechanical Engineering; 2007
B.S. (Austin Peay), M.S. (Miami Univ.), Ph.D. (Texas Christian Univ.)

Mathes, Rachel, Assistant Professor of Music; 1998
B.A. (Birmingham-Southern), M.M., D.M.A. (South Carolina)

Mayer, John C., Professor of Mathematics; Associate Chair, Department of Mathematics; 1984
B.A. (Randolph-Macon), M.A., Ph.D. (Florida)

McCaleb, Alberta, Professor of Nursing and Associate Dean of Clinical Affairs; 1982
B.S.N., M.S.N., D.S.N. (Alabama)

McCarthy, John P., Associate Professor, Physical Therapy; 2002
Ph.D. (Wisconsin at Madison)

McClintock, James G., Endowed Professor of Polar and Marine Biology; 1987
B.S. (California), M.S., Ph.D. (South Florida)

McClure, Craig, P., Assistant Professor of Chemistry; 2005
B.A. (Northern Iowa), M.S., Ph.D. (Michigan)

McComiskey, Bruce, Associate Professor of English; 1998
B.A., M.A. (Illinois State), Ph.D. (Purdue)

McConnell, Michael N., Associate Professor of History; 1983
B.S. (Indiana), M.A. (Youngstown State), Ph.D. (William and Mary)

McCroskey, James C., Scholar in Residence; 2005
B. S. (Southern State Teachers College), M.A. (University of South Dakota), Ed.D. (Pennsylvania State University)

McCutcheon, Martin J., Professor Emeritus of Biomedical Engineering; 1967
B.S.E.E., M.S.E.E., Ph.D. (Arkansas), P.E. (Alabama)

McElderry, Cathy, Assistant Professor of Anthropology and Social Work; 2002
B.S. (Montevallo), M.S.W., M.P.H. (Atlanta), PhD., (Alabama)

McElroy, Ellen, Assistant Professor of Nursing; 2006
BSN (U of Huntsville), MSN, DSN (UAB)

McFarland, Carl E., Jr., Professor of Psychology; Chair, Department of Psychology; 1975
B.A., M.S., Ph.D. (Kansas)

McGuinness, Teena, Professor of Nursing; 2007
Ph.D. (Pittsburgh)

McInerny, Sally Anne, Professor of Mechanical Engineering; 2007
BS (CSU Long Beach), MS, Ph.D. (UCLA)

McIver, Katherine A., Professor of Art History; 1992
B.A. (Oregon), M.A., Ph.D. (California-Davis)

McKissock, Mary L., Lecturer of Information Systems; 1997
B.S. (Houston), M.B.A. (Samford)

McKnight, Andrew, Assistant Professor of Foundations of Education, 2003
B.A. (Virginia Commonwealth). M.A.Ed. (William & Mary). Ph.D. (North Carolina at Greensboro)

McLain, Rhonda, Assistant Professor of Nursing; 2005
D.S.N. (UAB)

McLernon, Dennis J., Associate Professor of Theatre; 2000
B.A. (Allentown), M.Ed. (Auburn-Montgomery), M.F.A. (Alabama-Alabama Shakespeare Festival)

McNees, M. Patrick, Professor of Nursing; 2007
Ph.D. (Kansas)

McPherson, Heather A., Professor of Art History; 1982
B.A. (Oregon), M.A. (Sorbonne), Ph.D. (Washington)

McWilliams, Tennant S., Professor of History; 1974
A.B. (Birmingham-Southern), M.A. (Alabama), Ph.D. (Georgia)

Meadows, Lee, Associate Professor of High School Education; 1993
B.A. (Mississippi), M.A. (Texas), Ph.D. (Georgia)

Meakin, Robert L., Professor of Mechanical Engineering; 2007
BS (Brigham Young), MS, Ph.D. (Stanford)

Menear, Kristi S., Associate Professor of Physical Education; 2001
B.A. (Louisiana), M.A., Ph.D. (New Orleans)

Meneses, Karen, Professor of Nursing and Associate Dean of Research; 2007
Ph.D. (Boston College)

Merrill, Hugh, Instructor of Communication Studies; 2002
B.A., M.A.(Alabama), Ph.D.(Emory)

Merryman, David, Assistant Professor of Biomedical Engineering; 2007
B.S., M.S. (Tennessee); Ph.D. (Pittsburgh)

Messina, Frank M., Professor of Accounting; Chair, Department of Accounting and Information Systems; 1993
B.S. (Livingston), M.Acc., Ph.D. (Mississippi State), C.P.A.

Millard, Andre J., Professor of History; 1989
B.A. (Nottingham-England), M.A. (Mississippi), Ph.D. (Emory)

Milby, Jesse B., Professor of Psychology; Director, Medical (Clinical) Psychology Doctoral Program; 1968
B.A. (Eastern Baptist College), Ph.D. (Alabama)

Miller, E.T., Professor Emeritus of Civil and Environmental Engineering; 1981
B.C.E., M.S.C.E. (Georgia Institute of Technology), C.E. (Massachusetts Institute of Technology), Ph.D. (Texas A&M), P.E. (Alabama, Florida, Kentucky)

Miller, Stephen, Assistant Professor of History; 2001
B.A. (Wisconsin-Madison), M.A., PhD., (UCLA)

Miller, Susan B., Assistant Professor, Clinical Nutrition and Dietetics; 2003
M.S. (UAB)

Mirov, Sergey B., Professor of Physics; 1993
Master (Moscow Power Engineering Institute), Ph.D. (USSR Academy of Sciences)

Mohl, Raymond A., Distinguised Professor of History; Department of History; 1996
B.A. (Hamilton), M.A.T. (Yale), M.A., Ph.D. (NYU)

Mohr, Robert D., Instructor of Physics; 2003
B.S. (North Georgia), M.S. (Clemson), Ph.D. (Alabama)

Mompoint-Williams, Darnell, Nurse Practitioner; 2007
M.S.N. (UAB)

Moneyham, Linda, Professor of Nursing and Rachel Z. Booth Endowed Chair; 2007
D.S.N. (Indiana State)

Moore, Barbara, Assistant Professor of Nursing; 2005
BSN (Spalding), MSN (U of Kentucky), DSN (UAB)

Moore, Hassan, Assistant Professor of Mechanical Engineering; 2007
B.S. (Dillard), M.S. (Xavier Univ.of Louisiana); Ph.D. (Howard University)

Moore, John K., Assistant Professor of Spanish;
Associate Chair, Department of Foreign Languages and Literatures; 2003
B.A.(University of the South), M.A. (Middle Tennessee State), Ph.D. (North Carolina-Chapel Hill)

Morgan, Kathryn D., Associate Professor of Justice Sciences; 1991
B.S., M.A. (Texas Woman's), Ph.D. (Florida State)

Morgan, Sarah L., Professor, Clinical Nutrition and Dietetics; 1986
M.D. (Iowa)

Morris, David M., Associate Professor, Physical Therapy; 1991
Ph.D. (UAB)

Moroney, Michael, Assistant Professor of Government; 2003
B.S. (Northern Arizona), M.B.A. (Eastern), PhD., (Delaware)

Mosteller, Paul W., Associate Professor of Music; 1988
B.S. (West Chester), M.Ed.. (Juilliard), D.M.A. (Iowa)

Moss, Jacqueline, Assistant Professor of Nursing and Assistant Dean of Clinical Simulation & Technology 2002
B.S.N. M.S.N (Georgia State) Ph.D. (Maryland)

Moyers, Penelope A., Professor, Occupational Therapy; 2004
Ed.D. (Ball State)

Mrug, Sylvie, Assistant Professor of Psychology; 2005
B.S. (Purdue), M.S. (Purdue), Ph.D. (Purdue)

Muccio, Donald D., Professor of Chemistry; 1982
B.S., Ph.D. (Ohio State)

Munchus, George M., III, Professor of Management; Director, Department of Management and Organization;1976
B.S., M.B.A., Ph.D. (North Texas State), A.P.S.

Munoz, A. Jullian, Instructor, Clinical Nutrition and Dietetics; 2007
M.D. (Causa SOM)

Murphy, Patrice, Assistant Professor, Physical Therapy; 1977
M.S. (Kentucky)

Murray, Pamela S., Associate Professor of History; 1990
B.A. (New Mexico State), M.A., Ph.D. (Tulane)

Musa, Phillip F., Associate Professor of Management; 2000
B.S., M.S., M.B.A. (Texas Tech)

Nagy, Timothy R., Professor, Physiology and Metabolism Program; 1996
Ph.D. (Utah)

Nail, Lance, Associate Professor of Finance;
Chairman, Department of Finance, Economics, and Quantitative Methods; 1996
B.S. (Alabama), Ph.D. (Georgia)

Nealand, Lana, Nurse Practitioner; 2003
M.S.N. (UAB)

Neilson, Michael J., Professor Emeritus of Geology; 1975
B.S., Ph.D. (New England, Australia)

Neiva, Eduardo, 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., Associate Professor of Special Education; 1993
B.S. (Millsaps). M. Ed. (Louisiana State), Ph.D. (North Texas)

Nelson, Dalton S., Instructor of Electrical and Computer Engineering; 1994
B.S.E.E., M.S.E.E. (UAB), P.E. (Alabama)

Nemeth, Paula A., Instructor of Biology; 1992
B.S. (Northwestern), M.S., Ph.D. (Michigan)

Newcomer, Bradley R., Associate Professor, Radiography Program; 1997
R.M.R.I.T., Ph.D. (Wright State University)

Newton, Laura E., Instructor, Clinical Nutrition and Dietetics Program; 2004
M.A.Ed. (UAB)

Nichols, Robert, Research Associate Professor of Mechanical Engineering; 2002
B.S. (Mississippi), M.E., Ph.D. (Tennessee)

Nikles, Jacqueline A., Associate Professor of Chemistry; 2001
B.S. (Marietta College), Ph.D. (Case Western Reserve)

Nix, Mindy, Nurse Practitioner; 2008
M.S.N. (U of South Alabama)

Nkashama, Mubenga N., Professor of Mathematics; 1989
B.S., M.S. (National University of Zaire), Ph.D. (Catholic University of Louvain, Belgium)

Nonidez, William K., Associate Professor of Chemistry; 1984
B.S., Ph.D. (Georgia)

Nordlund, Thomas M., Associate Professor of Physics; 1990
B.A. (Oregon), M.S., Ph.D. (Illinois)

Nunn, Grady H., Professor Emeritus of Government and Public Service; 1949
B.A., M.A., Ph.D. (New York)

Oakley, Ingrid D., Assistant Professor, Nurse Anesthesia Program; 2005
D.V.M (Auburn)

O'Connor, Stephen J., Professor, Health Services Administration; 2000
Ph.D. (UAB)

Ogard, William K., Assistant Professor, Physical Therapy; 1996
Ph.D. (Iowa)

O'Leary, Malinda Blair, Instructor of Spanish; 2005
B.A., M.A. (UAB)

Olive, J. Fred, III, Associate Librarian; Head, Educational Technology Services, Mervyn H. Sterne Library; 1988
B.A. (Samford), M.L.S., Ed.S., Ed.D. (Alabama)

Oliver, Nathan, Instructor of Management; 2003
B.S. (UAB), M.B.A. (Alabama A & M)

Oliver, Tina, Instructor of Mechanical Engineering; 2000
B.S.M.E, M.S.M.E (UAB)

O'Neil, Peter V., Professor Emeritus of Mathematics; 1978
B.S. (Fordham), M.S., Ph.D. (Rensselaer Polytechnic Institute)

Orihuela, Carlos L., Associate Professor of Spanish; 1994
B.A. - Licenciatura in Literature (Universidad Nacional Mayor De San Marcos, Lima), M.A., Ph.D. (Pittsburgh)

Orthner, Helmuth F., Professor, Health Informatics Program; 1998
Ph.D. (Pennsylvania)

Osborn, Kristin, Nurse Practitioner; 2001
M.S.N. (UAB)

Oversteegen, Lex G., Professor of Mathematics; 1980
Kandidaat Doctorandus (Amsterdam), Ph.D. (Wayne State)

Pang, K. C., Instructor of Management; 2003
B.S., M.B.A. (UAB)

Panion, Henry, III, University Professor, Department of Music; 1987
B.S. (Alabama A&M), M.A., Ph.D. (Ohio State)

Parcak, Sarah H., Assistant Professor of Anthropology and Social Work; 2006
B.A. (Yale), M.A., PhD. (Cambridge)

Park, Na-Jin, Assistant Professor of Nursing; 2006
B.S.N., M.S.N. (Pusan National Univ, Korea), Ph.D. (UAB)

Patterson, Burton R., Professor of Materials Science and Engineering; 1981
B.E. (Vanderbilt), M.S., Ph.D. (Florida)

Patterson, James C., Assistant Professor of Chemistry; 2007
B.A. (Carleton), Ph.D. (California – Santa Barbara)

Patterson, Janice, Associate Professor of Elementary Education; 1999
B.S. (Kentucky), M.A. (Western Kentucky), Ph.D. (Wisconsin)

Patterson, Jerry L., Professor of Educational Leadership; 1996
B.S., M.A. (Kentucky), Ph.D. (Ohio)

Paustian, Pamela E., Assistant Professor, Health Sciences Program; 2001
M.S., (Faulkner University)

Peel, Claire, Professor, Physical Therapy; 1996
Ph.D. (Iowa)

Pence, Gregory E., Professor of Philosophy; Coursemaster, Medical Ethics, School of Medicine; 1976
B.A. (William and Mary), M.A., Ph.D. (New York)

Penick, James L., Professor Emeritus of History; 1988
B.A. (William and Mary), M.A., Ph.D. (California-Berkeley)

Perez, Patricia L., Assistant Professor, Physical Therapy; 2001
M.S. (UAB)

Perry, Tonya, Assistant Professor of High School Education; 2002
B.A. (North Carolina-Chapel Hill). M.Ed. (UAB)

Peters, Robert W., Professor of Civil, Construction and Environmental Engineering; 2001
B.S. (Northwestern), M.S., Ph.D. (Iowa State)

Petri, Cynthia J., Associate Professor of Health Education; 1992
B.A., M.S., Ph.D. (Purdue)

Pewitt, J. Dudley, Distinguished Service Professor Emeritus; 1973
M.S., M.B.A., D.B.A. (Southern California)

Pierce, Cecilia M., Associate Professor of High School Education; 1990
B.S. (Alabama), M.Ed. (Montevallo), Ed.D. (Alabama)

Pijuan-Thompson, Vivian, Assistant Professor, Cytotechnology Program; 2000
Ph.D. (Miami, Coral Gables)

Pilkerton, Patty A., Senior Assistant Librarian, Technical Services, Mervyn H. Sterne Library; 1988
B.S. (Montevallo), M.A. (UAB), M.L.S. (Alabama)

Pillay, Selvum, Assistant Professor of Materials Science and Engineering; 2007
Bach (M L Suttan Technikon), M.S.M.E. (Florida A&M), Ph.D. (UAB)

Piyathilake, Chandrika J., Associate Professor, Nutritional Biochemistry & Genomics Program; 1997
Ph.D. (UAB)

Podolski, Carolyn R., Instructor, Occupational Therapy; 2005
M.S. (Columbia)

Pollard, AndrewProfessor of Biomedical Engineering; 1996
B.S.E., M.S.E., Ph.D. (Duke)

Pollard, Elizabeth Ayres, Assistant Professor of Theatre; 2003
B.A. (New Mexico State), M.A. (Arizona State)

Poole, Dorothea, Clinical Nurse Specialist; 1993
B.S.N. (Tuskegee), M.S.N. (Alabama)

Powell, Larry, Professor of Communication Studies; 1998
B.A., M.A. (Auburn), Ph.D. (Florida)

Powell, Mickie L., Research Assistant Professor of Biology; 2006
B.S., M.S., Ph.D. (UAB)

Powell, M. Paige, Assistant Professor, Health Sciences Program; 2004
Ph. D. (Pennsylvania State)

Powers, Ollie S., Associate Professor of Accounting; 1975
B.S. (Samford), M.A. (Alabama), C.M.A.

Powers, Thomas L., Professor of Marketing; 1985
B.S., M.B.A. (Eastern Michigan), Ph.D. (Michigan State)

Price, Marjorie, Associate Professor of Philosophy; 1977
A.B. (Barnard), M.A., Ph.D. (New York)

Price, William, Assistant Professor of Music; 2006
B.M.E. (UNA), M.M., D.M.A. (LSU)

Prince, Charles W., Professor, Nutritional Biochemistry & Geonomics Program; 1984
Ph.D. (UAB)

Pruett, Jill, Assistant Professor of English; 2007
B.A. (Warren Wilson), M.A., Ph.D. (Florida)

Pryor, Erica, Assistant Professor of Nursing; 2000
Ph.D. (Emory)

Qu, Haiyan, Assistant Professor, Health Services Administration; 2007
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Quintana, Jose B., Assistant Professor, Health Services Administration; 1989
Ph.D. (UAB)

Quinlan, Kieran, Professor of English; 1986
B.A., M.A. (Oxford), M.A., Ph.D. (Vanderbilt)

Radford, David L., 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)

Randich, Alan, Professor of Psychology; 1991
B.A., M.S. (Syracuse), Ph.D. (Dalhousie)

Rauterkus, Andreas, Assistant Professor of Finance; 2007
Diploma. (J. W. Goethe University, Germany), M.B.A. (East Carolina), Ph.D. (Cincinnati)

Rauterkus, Stephanie, Assistant Professor of Finance; 2007
B.S., M.A., M.B.A. (Cincinnati), Ph.D. (LSU)

Ray, Midge N., Associate Professor, Health Information Management Program; 1983
R.N, M.S.N. (UAB)

Reed, Linda, Assistant Professor of Nursing; 1980
B.S.N., M.S.N. (Alabama), Ph.D. (Texas)

Reynolds, Dale, Instructor of Music; Associate Chair, Department of Music; 1998
B.M. (Samford), M.M. (Southwestern Baptist Theological Seminary), Post-M

Reynolds, Jeff W., Associate Professor of Music; Chair, Department of Music; 1998
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Rice, Marti, Professor of Nursing; 1997
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Richmond, Virginia Peck, Professor of Communication Studies; Chair, Department of Communication Studies; 2006
B.A. (West Virginia Institute of Technology), M.A. (West Virginia), Ph.D. (Nebraska)

Ridings, Herbert D., Associate Professor, Surgical Physician Assistant Program; 2004
M.A. (Kentucky)

Rieger, Sonja O., Professor of Art; 1979
B.A. (Massachusetts), M.F.A. (Rutgers)

Rigney, E. Douglas, Professor of Biomedical Engineering;
Special Assistant to the Provost; Vice President of Student Affairs; 1989
B.S.E, B.S.Mt.E, M.S.B.M.E, Ph.D. (UAB), P.E. (Alabama)

Ritchey, Ferris J., Professor of Sociology; Associate Professor of Administration/Health Services;
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B.A., M.A. (Alabama), Ph.D. (Texas)

Rivera, C. Julio, Associate Professor of Information Systems; 1988
B.S., M.S. (Texas A&M), M.B.A. (Southern Mississippi), Ph.D. (Mississippi State)

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B.S.N. (Alabama), M.S.N. (South Florida), M.S. (Troy), Ph.D. (North Carolina – Chapel Hill)

Roberts, Steve, Assistant Professor of Music; 2007
B.M. (Oberlin), M.M., D.M.A. (Illinois)

Robicheaux, Robert A., Professor of Marketing; Director, Department of Marketing and Industrial Distribution; 2004
B.S., M.B.A., Ph.D. (Louisiana State University)

Robinson, Christopher, Assistant Professor of Psychology; 2004
B.A. (New College), Ph.D. (UAB)

Robinson, Robert R., Assistant Professor of Government; 2006
B.A. (Rhodes), M.A., PhD. (Wisconsin-Madison)

Rogers, Jack M., Associate Professor of Biomedical Engineering; 1994
B.S., M.S., Ph.D. (California-San Diego)

Ross, Don, Professor of Philosophy; 2003
B.A., M.A., Ph.D (Western Ontario).

Ross, Jill, Assistant Professor of Nursing; 2002
B.S.N (College of St. Catherine) M.S.N. (Florida) Ph.D. (University of Kansas Medical Center)

Rowe, Jan A., Associate Professor, Occupational Therapy; 1989
O.T.D. (Nova Southeastern)

Roy, Jane, Associate Professor of Physical Education; 2001
B.S., M.A., PhD. (Alabama)

Rushton, William James, IV, Assistant Director of the Honors Program and Adjunct Lecturer of English; 1998
B.A. (Vanderbilt), A.B. (Oxford), M.A., Ph.D. (Virginia)

Ryan, Allen, Instructor of Economics; 2006
B.S., B.B.A. (Georgia), M.S.H.A. (UAB)

Ryan, Cynthia, Associate Professor of English; 1998
B.S., M.A. (Illinois State), Ph.D. (Purdue)

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B.A., M.A., Ph.D. (Kyoto, Japan)

Saenz, Karen, Assistant Professor of Nursing; 2004
BSN, MPH (UAB), MSN (U of Florida), PhD (U of Central FL)

Samuels, Sue, Assistant Professor of Music; Director of Bands; 2003
B.M.(Furman), M.M.(Georgia State)

Salama, Talat, 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)

Sánchez-López, Lourdes, Associate Professor of Spanish; Director, Spanish for Special Purposes; 2001
B.A. (Universidad de Granada), M.A. (Southern Mississippi), M.A., Ph.D. (Universidad de Jaén)

Santoro, Nick J., Research Associate Professor of Mechanical Engineering; 2007
B.S, M.S., Ph.D. (Alabama)

Sauer, Maribeth, Nurse Practitioner; 2000
M.S.N. (UAB)

Sawyer, Patricia S., Director, Gerontology Education Program; 1997; Assistant Professor of Sociology
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Schimizzi, Anthony G., Associate Librarian, Technical Services, Mervyn H. Sterne Library; 1978
B.A. (Cornell), M.A. (North Carolina), M.L.S. (Kentucky)

Schnormeier, Kimberly A., Associate Professor of Theatre; Associate Chair, Department of Theatre; 1991
B.F.A. (Miami), M.F.A. (Northwestern)

Schwarzer, David, Associate Professor of Curriculum and Instruction; 2006
B.A. (Tel-Aviv University), M.A. (Tel-Aviv University), Ph. D. (University of Arizona)

Schwebel, ,David C., Associate Professor of Psychology; 2000
B.A. (Yale), M.A., Ph.D. (Iowa)

Scripa, Rosalia N., 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)

Searby, Linda J., Assistant Professor of Educational Leadership; 2005
B.A. (Lincoln), M.S. Eastern Illinois), Ph.D. (Illinois State)

Segner, E. P., Jr., Professor Emeritus of Civil and Environmental Engineering; 1990
B.S.C.E., M.S.C.E. (Texas), Ph.D. (Texas A&M), P.E. (Alabama, Texas, Oklahoma, Tennessee)

Self, William R., Associate Professor of Communication Studies;
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B.A. (Montevallo), Ph.D. (Alabama)

Shackleford, Lee, Instructor of Theatre; 2000
B.A. (UAB), M.F.A. (Southern Illinois)

Sharifov, Oleg F., Research Assistant Profressor of Biomedical Engineering; 2005
M.D. (Russian State Medical University), Ph.D. (Moscow State University)

Sharlach, Lisa, Assistant Professor of Government; 2004
B.A. (California), M.A. (California), Ph.D. (California)

Shaw, Sharon E., Associate Professor, Physical Therapy; 1995
Dr. P.H. (UAB)

Shealy, David L., Professor of Physics; Chair, Department of Physics; 1973
B.S., Ph.D. (Georgia)

Sheets, Patricia M., Instructor in Counselor Education; 1991
B.A., M.A. (UAB), Ph.D. (Alabama)

Shewchuk, Richard M., Professor, Health Services Administration; 1986
Ph.D. (Oregon)

Shores, Melanie L, Assistant Professor of Educational Psychology; 2005
B.S. (Auburn), M.A.E. (Auburn), M.A (Auburn), Ph.D. (Auburn)

Shih, Ming-Hsih (Alan), Research Associate Professor of Mechanical Engineering; 2002
B.E. (Tamkang University), M.S., Ph.D. (Mississippi State)

Simionescu, Florentina, Instructor of Mechanical Engineering; 2007
B.S. (Transylvania Univ., Romania) M.S., Ph.D. (Auburn)

Simionescu, Petru-Aurelian, Assistant Professor of Mechanical Engineering; 2007
B.S. (Polytechnic Univ., Bucharest), M.S., Ph.D. (Auburn)

Shterenberg, Roman G., Assistant Professor of Mathematics; 2007
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Siegel, Daniel, Assistant Professor of English; 2002
B.A.(Chicago), M.A., Ph.D.(Virginia)

Simányi, Nándor, Professor of Mathematics; 1999
M.S., Ph.D. (Roland Eötvös - Hungary), Dr.M.S. (Hungarian Academy of Sciences)

Simon, Cliff, Assistant Professor of Theatre; 2002
B.A. (Queens), M.F.A. (Texas-Austin)

Sims, Michele, Associate Professor of Middle School Education; 1999
B.A., M.S. (CUNY), Ph.D. (Pennsylvania)

Sims, Sandra, Assistant Professor of Physical Education; 2005
B.S. (Montevallo), M.A. (UAB), Ed.S. (UAB), Ph.D. (Southern Mississippi)

Singh, Sanjay K., Associate Professor of Information Systems; 1993
B.Com. (St. Xavier), M.B.A. (Georgia College), Ph.D. (Georgia)

Sisiopiku, Virginia P., Associate Professor of Civil, Construction and Environmental Engineering; 2002
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Singleton, Tommie, Associate Professor of Information Systems; 2003
B.S., M.B.A. (North Alabama), Ph.D. (Mississippi)

Skinner, Lauren, Assistant Professor of Marketing; 2007
B.S. (Tulane), M.B.A. (Samford), Ph.D. (Alabama)

Skjellum, Anthony, Professor of Computer and Information Sciences;
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Slack, James D., Professor of Government; 1999
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Sc.B. (Brown), M.S. (Stevens Institute of Technology), Ph.D. (Pennsylvania)

Sloane, Michael E., Associate Professor of Psychology; 1982
B.A., M.A. (University College, Dublin), Ph.D. (Northwestern)

Slovensky, Donna J., Professor, Health Sciences Program; 1976
R.H.I.A., Ph.D. (UAB)

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Smith, Dennis G., Associate Professor of Electrical and Computer Engineering; 1977
B.S.E. (Alabama), M.S.E. (UAB), Ph.D. (Alabama in Huntsville)

Smith, Glenda, Assistant Professor of Nursing; 2006
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Smith, Tommy G., Associate Professor of High School Education; 1989
B.S., M.S., Ed.D. (Auburn)

Smith, Virginia Whatley, Associate Professor of English; 1991
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Smith, William M., Professor Emeritus of Biomedical Engineering;; 1994
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B.S.N., B.S., M.A., M.S.N. (UAB)

Song, Yuhua, Assistant Professor of Biomedical Engineering; 2006
B.S. (Jilin University of Technology), M.S. (Harbin University of Science and Technology),
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Soni, Bharat K., Professor of Mechanical Engineering; Chair, Department of Mechanical Engineering; 2002
B.S., M.S. (M.S. University, India), Ph.D. (Texas-Arlington)

Sorochinsky, Arthur, Instructor of Finance; 2004
B.S. (UAB), M.A. (University of Alabama)

South, Lisa, Assistant Professor of Nursing; 2004
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Spezzini, Susan K., Assistant Professor of English as a Second Language; 2005
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Stanishevsky, Andrei V., Assistant Professor of Physics; 2002
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Stansell, Laura R., Instructor of Mathematics; 2007
B.S. (Berry), M.S.(Southern Mississippi), M.S. (UAB)

Steele, Brian, Assistant Professor of History; 2005
B.A. (Tulsa), M.A. (Tulsa), Ph.D. (UNC)

Stephens, G. Lynn, Professor of Philosophy; 1979
B.A. (Harvard), Ph.D. (Massachusetts)

Stephens, Jerry W., Librarian and Director, Mervyn H. Sterne Library; 1974
B.S., M.B.A. (UAB), M.L.S., Ph.D. (Alabama)

Stocks, Douglas R., Associate Professor Emeritus of Mathematics; 1969
B.A., M.A., Ph.D. (Texas)

Stokely, Ernest M., 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, Professor of Mathematics; 1994
Ph.D. (Frankfurt, Germany)

Stone, Mischelle, Instructor of Justice Sciences; 2005
B.S. (Central Michigan), M.A. (Central Michigan), Ph.D. (Michigan State)

Strevy, Deborah, Assistant Professor of Early Childhood Education; 2004
B.S. (UAB), M.A. (UAB), Ph.D. (UAB)

Stullenbarger, Elizabeth, Professor of Nursing and Associate Dean of Academic Affairs; 1981
B.S.N. (Alderson-Broaddus College), M.S.N. (Alabama), D.S.N. (UAB)

Sullivan, Jacqueline, Assistant Professor of Philosophy; 2007
B.A. (Clark), M.S., Ph.D. (Pittsburgh)

Sutton, Bryce, Assistant Professor of Economics; 2004
B.A. (Indiana), M.A. (Eastern Illinois), Ph.D. (St. Louis)

Swatzell, Kelley E., Assistant Professor, Nutritional Biochemistry & Genomics Program; 2006
M.P.H. (UAB)

Talbott, Laura L., Assistant Professor of Health Education, 2005
B.S. (Ball State), M.S. (Central Florida), Ph.D. (South Carolina)

Talbot, Thomas F., Professor Emeritus of Materials and Mechanical Engineering; 1967
B.M.E. (Auburn), M.S. (California Institute of Technology), Ph.D. (Georgia Institute of Technology), P.E. (Alabama, Georgia, Tennessee)

Tamura, Tsunenobu, Professor, Nutritional Biochemistry & Genomics; 1982
M.D. (Fukushima Medical College)

Tanik, Murat M., Professor of Electrical and Computer Engineering; 1998
B.S. (Middle East Technical), M.C.S., Ph.D. (Texas A&M), P.E. (Texas)

Tanju, Deborah W., Professor of Accounting; 1982
B.B.A., M.Acc., Ph.D. (Georgia), C.M.A., C.I.A.

Tanju, Murat N., Professor of Accounting; 1977
B.S. (Academy of Economics and Commercial Sciences, Eskisehir, Turkey), M.Acc., Ph.D. (Georgia), C.M.A., C.P.A.

Taub, Edward, University Professor of Psychology; 1986
B.A. (Brooklyn), M.A. (Columbia), Ph.D. (New York)

Taylor, Christopher C., Professor of Anthropology and Social Work;
Chair, Department of Anthropology and Social Work, 1991
B.A. (Yale), M.A. (Paris-X, Nanterre), Ph.D. (Virginia)

Tent, James F., Professor of History; Chair, Department of History, University Scholar; 1974
A.B. (Dartmouth), M.A., Ph.D. (Wisconsin)

Temple, Cheryl, Instructor of English; 2005
B.S. (Missouri), M.A. (Chapman)

Temple, Gale M., Associate Professor of English; 2001
B.S.(Michigan), M.A., Ph.D.(Loyola-Chicago)

Thacker, Robert. W., Associate Professor of Biology; 2000
B.S. (Duke), M.S., Ph.D (Michigan)

Theodore, George M., Assistant Professor of Educational Leadership, 2005
B.A. (Birmingham Southern), M.A. (UAB), Ed.S. (UAB), Ph.D. (Alabama/UAB)

Tintocalis, Stacy, Assistant Professor of English; 2005
B.A. (California—Berkeley), M.F.A. (Iowa), Ph.D. (Missouri)

Tollefsbol, Trygve, Associate Professor of Biology; 1998
B.S. (Houston), M.S., Ph.D. (North Texas)

Tong, Dieu Van, Associate Librarian, Technical Services, Mervyn H. Sterne Library; 1977
B.A. (Hue), M.L.S. (Vanderbilt)

Treutel, Rita B., Instructor of English; 1998
B.S. (Auburn), M.A. (UAB)

Trigg, Becky, Assistant Professor of Sociology; 2003
B.A., M.A., (UAB)

Trimm, Jerry M., Associate Professor of Health Sciences; 2006
Ph.D. (UAB)

Tsay, Bor-Yi, Professor of Accounting; 1986
B.S. (National Taiwan), M.B.A. (Eastern Washington), Ph.D. (Houston), C.P.A.

Tsoi, Georgiy, Research Assistant Professor of Physics; 2005
M.Sc. (Karkov, Ukraine), Ph.D. (NAS, Ukraine)

Tucker, Diane C., Professor of Psychology; Director, Behavioral Neuroscience Doctoral Program; 1984
B.S., M.S., Ph.D. (Iowa)

Turner, Kevin, Instructor of Music; 1998
B.A. (Trinity)

Turner-Henson, Anne, Professor of Nursing; 1982
B.S.N. (Medical College of Georgia), M.N. (Emory), D.S.N. (Alabama)

Turpen, Richard A., Associate Professor of Accounting; 1993
B.S. (Birmingham-Southern), M.A., Ph.D. (Alabama), C.P.A.

Twieg, Donald B., Professor of Biomedical Engineering; Associate Professor of Cardiovascular Disease/Medicine; 1990
B.A., M.S. (Rice), Ph.D. (Southern Methodist)

Tyson, Lawrence E., Associate Professor of Counselor Education; 1997
B. A. (Atlantic Christian), M.Ed. (Rollins), Ph.D. (Mississippi State)

Uddin, Nasim, Associate Professor of Civil, Construction and Environmental Engineering; 2001
B.S. (University of Engineering and Technology, Bangladesh), M.S. (Oklahoma-Norman), Ph.D. (SUNY Buffalo)

Umlauf, Mary, Professor of Nursing; 1994
Ph.D. (U of Texas – Austin)

Uswatte, Gitendra, Assistant Professor of Psycholgoy; 2001
B.A. (Princeton), M.A., PhD., (UAB)

Vaidya, Uday K., Professor of Materials Science and Engineering; 2001
B.S.M.E. (Karnataka University, India), M.S. (Shivaji University, India), Ph.D. (Auburn)

Van Matre, Joseph G., Professor of Quantitative Methods; 1971
B.E.E., M.B.A. (Auburn), Ph.D. (Alabama)

Van Sant, John, Associate Professor of History; 2000
B.A., M.A. (UC-Davis), Ph.D. (Oregon)

Vance, David, Assistant Professor of Nursing; 2004
B.S. (VA Tech), M.S. (New Orleans), Ph.D. (UAB)

Vaughan, Loy O., Jr., Associate Professor of Mathematics; 1969
B.A. (Florida State), M.S., Ph.D. (Alabama)

Vaughn, Gregg L., Associate Professor of Electrical and Computer Engineering;
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B.S.E.E., M.S.E.E, Ph.D. (Alabama), P.E. (Alabama)

Velu, Sadanandan, Assistant Professor of Chemistry; 2002
B.Sc., M.Sc. (Calicut – India), Ph.D. (Madras – India)

Vincent, Janice, Assistant Professor of Nursing; 1983
B.S.N. (Samford), M.S.N. (Medical College of Georgia), D.S.N. (Alabama)

Vines, Adam, Assistant Professor of English; 2006
B.A., M.A. (UAB), M.F.A. (Florida)

Vogtle, Laura K., Professor, Occupational Therapy; 1995
Ph.D. (Virginia)

Vohra, Yogesh K., Professor of Physics and University Scholar;
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B.S., M.S., Ph.D. (Delhi, India)

Vollmer, Sara H., Research Assistant Professor of Philosophy
B.S. (Kansas), Ph.D. (Nebraska), Ph.D. (Maryland)

Voltz, Deborah L., Associate Professor of Special Education, 2003
B.A. (Evanston), M.A. (UAB), Ed.D. (Alabama)

Vuchinich, Rudy, Professor of Pscyhology; 2001
B.S., (Indiana State), M.A., PhD., (Vanderbelt)

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B.M.S., M.A., PhD.,Ph.D. (Belorussian – Russia)

Wadas, Theresa, Nurse Practitioner; 2004
M.S.N. (UAB)

Wadley, Virginia, ResearchVoltz, Deborah, Associate Professor of Special Education, 2003
B.A. (National College of Education-Evanston), M.A. (UAB), Ed.D. (Alabama)

Walden, Carolyn F., Associate Librarian, Technical Services, Mervyn H. Sterne Library; 1978
B.M., M.A. (Iowa), M.M. (Cincinnati)

Walker, Chris D., Assistant Professor of Anthropology and Social Work; 1999
B.S.S.W., M.S.W. (Alabama)

Walker, Joe, Associate Professor of Finance; 1987
B.A., B.S. (Baylor), Ph.D. (Texas A&M)

Wallander, Jan, Research Professor of Psychology; 1986
B.A. (Ashland), M.S., Ph.D. (Purude)

Walsh, Peter E., Research Professor of Mechanical Engineering; 2002
B.S. (Robert College, Turkey), M.A. (Wesleyan University), Ph.D. (Cornell)

Wang, Pengfei, Assistant Professor of Chemistry; 2005
B.E., B.Sc. (Tsinghua, China), M.S. (Illinois-Chicago), Ph.D. (Wisconsin)

Wang, Yu-mei, Associate Professor of Educational Technology; 2002
B.A. (Harbin Normal – China), Ph.D. (Oregon-Eugene)

Ward, James R., Jr., Professor of Mathematics; 1989
B.A., M.A., Ph.D. (South Florida)

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Warren, Mary, Associate Professor, Occupational Therapy; 2001
M.S. (Kansas)

Watkins, Charles L., Professor of Chemistry; Associate Dean, School of Natural Sciences and Mathematics; 1970
B.S. (Alabama), M.S., Ph.D. (Florida)

Watson, R. Douglas, Professor of Biology; 1988
B.S. (Southern Utah State), Ph.D. (Iowa)

Watts, Penni, Nurse Practitioner; 2002
M.S.N. (Troy)

Watts, Stephen A., Professor of Biology; 1987
B.S. (Auburn), M.A., Ph.D. (South Florida)

Waugh, Jonathan B., Associate Professor, Respiratory Therapy Program; 1999
Ph.D. (Ohio State)

Wdowiak, Thomas J., Associate Professor Emeritus of Physics; 1976
B.S. (South Florida), Ph.D. (Case Western Reserve)

Weatherly, C. Diann, Senior Assistant Librarian, Reference Services, Mervyn H. Sterne Library; 1985
B.A. (Berry), M.L.S. (Emory)

Webb, Samuel L., Associate Professor of History; 1988
B.S. (Livingston), J.D. (Alabama), M.A. (UAB), Ph.D. (Arkansas)

Wech, Barbara, Associate Professor of Management; 2001
B.S. (Wayne State), M.B.A. (Michigan State), Ph.D. (Louisiana State)

Weikard, Rudi, Professor of Mathematics; Chair, Department of Mathematics; 1990
Diploma, Ph.D. (Technical University of Braunschweig, Germany)

Weissman, Norman W., Professor, Health Services Administration; 1997
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Weinstein, Gilbert, Associate Professor of Mathematics; 1991
B.A. (Haifa, Israel), M.Ph., Ph.D. (Syracuse)

Weller, Rosalyn E., Associate Professor of Psychology; 1986
B.A. (Pennsylvania State), Ph.D. (Vanderbilt)

Wenger, Lowell E., Professor of Physics; Dean, School of Natural Sciences and Mathematics; 2003
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Whall, Mary B., Assistant Professor of Philosophy; 1993
B.S., B.A. (UAB), Ph.D. (Georgia)

Wharton, Lawrence G., Associate Professor of English; 1974
B.A., M.A. (Oklahoma State), Ph.D. (Utah)

Wheatley, Bruce P., Professor of Anthropology and Social Work; 1979
A.B. (California-Berkeley), Ph.D. (California-Davis)

Wibbels, Thane, Associate Professor of Biology; 1993
B.S. (Nebraska), M.S. (Houston), Ph.D. (Texas A&M)

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B.S. (Colorado), Ph.D. (Rice)

Williams, Anne, Assistant Professor of Nursing; 1994
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Wills, Edward L., Research Associate Professor of Physics; 1972
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Wilson, Bettye G., Associate Professor, Radiologic Sciences Program; 1992
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Wilson, Kenneth L., Associate Professor of Sociology; 1989
B.A. (Iowa), M.A., Ph.D. (Texas)

Wilson, Michele, Associate Professor of Sociology; Director, Women's Studies Program; 1976
B.A. (Boston), M.A. (Rhode Island), Ph.D. (Connecticut)

Wittig, John W., Associate Professor of Communication Studies; 1981
A.B. (Carson-Newman), M.A. (Florida), Ph.D. (Southern Illinois)

Wood, Jacqueline, Assosciate Professor of English, 1999
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Woods, Stephanie, Nurse Practitioner; 2003
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Worthington, Lou Anne, Associate Professor of Special Education; 1996
Chair, Department of Leadership, Special Education, and Foundations;
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Wright, Annette, Nurse Practitioner; 2002
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Wright, Elizabeth L., Assistant Professor, Nurse Anesthesia Program; 2002
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Young, John H., Professor Emeritus of Physics; 1969
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Zahariadis, Nikolaos, Associate Professor of Government; 1998
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Maîtrise (Université du Centre, Tunisia), M.A., Ph.D. (Michigan State)

Zeng, Yanni, Associate Professor of Mathematics; 1997
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Zhang, Chengcui, Assistant Professor of Computer and Information Sciences; 2004
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