

*The University of North Alabama is accredited by the
Commission on Colleges of the Southern Association of Colleges and Schools
(1866 Southern Lane, Decatur, Georgia 30033-4097:
Telephone Number 404-679-4501)
to award bachelor's, master's and education specialist degrees.*

• • • ACCREDITED BY • • •

**The College of Education at the University of North Alabama is accredited by the
National Council for Accreditation of Teacher Education (NCATE),
2010 Massachusetts NW, Suite 500, Washington, D.C. 20036;
Telephone (202) 466-7496. This accreditation covers institutions initial teacher
preparation and advanced educator preparation programs.**

The Council on Social Work Education (Baccalaureate)

The National Association of Schools of Music

The National Association of Schools of Art and Design

Association of Collegiate Business Schools and Programs

**National League for Nursing Accrediting Commission
61 Broadway, New York, NY 10006 (212) 363-5555, ext. 153**

**The Bachelor of Arts and Bachelor of Science in Industrial Hygiene are accredited by the
Applied Science Accreditation Commission (ASAC) of the Accreditation Board for
Engineering and Technology, Inc. (ABET)
111 Market Place, Suite 1050, Baltimore, MD 21202 (410) 347-7700**

• • • CERTIFIED BY • • •

The American Chemical Society

• • • ENDORSED BY • • •

National Kitchen and Bath Association

An Invitation

The University of North Alabama cordially invites prospective students, parents, and other interested persons individually or in groups to visit the university campus. Guided tours are available daily Mondays through Fridays from 10:00 a.m. to 2:00 p.m. during the fall and spring semesters. Tours are not available during holiday weekends, recess periods, summer terms, or between terms. To schedule a campus tour, contact the Office of Admission, University of North Alabama, Florence, Alabama 35632-0001. Telephone: Area Code 256-765-4608.

This catalog is the official announcement of the facilities, programs, requirements, and regulations of the University, and students enrolling in the University are subject to the provisions stated therein. Statements regarding fees and other charges, courses, when courses are offered, requirements, and other conditions are subject to change without advance notice. The University reserves the right to cancel any class or section in which fewer than ten students are enrolled.

NONDISCRIMINATION POLICIES

It is the policy of the University of North Alabama to afford equal opportunities in education and in employment to qualified persons regardless of age, color, creed, disability, national origin, race, religion, or sex, in accordance with all applicable federal and state constitutions, laws, and valid regulations. The coordinators for non-discrimination policies are for students, the Vice President for Student Affairs and University Counsel, Room 217, Bibb Graves Hall or telephone 256-765-4235; for employees, the Director of Human Resources and Affirmative Action, Room 222, Bibb Graves Hall or telephone 256-765-4291.

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Calendar

2005

JA	APRIL	JULY	OCTOBER
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
1	1 2	1 2	1
2 3 4 5 6 7 8	3 4 5 6 7 8 9	3 4 5 6 7 8 9	2 3 4 5 6 7 8
9 10 11 12 13 14 15	10 11 12 13 14 15 16	10 11 12 13 14 15 16	9 10 11 12 13 14 15
16 17 18 19 20 21 22	17 18 19 20 21 22 23	17 18 19 20 21 22 23	16 17 18 19 20 21 22
23 24 25 26 27 28 29	24 25 26 27 28 29 30	24 25 26 27 28 29 30	23 24 25 26 27 28 29
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FEBRUARY	MAY	AUGUST	NOVEMBER
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
1 2 3 4 5	1 2 3 4 5 6 7	1 2 3 4 5 6	1 2 3 4 5
6 7 8 9 10 11 12	8 9 10 11 12 13 14	7 8 9 10 11 12 13	6 7 8 9 10 11 12
13 14 15 16 17 18 19	15 16 17 18 19 20 21	14 15 16 17 18 19 20	13 14 15 16 17 18 19
20 21 22 23 24 25 26	22 23 24 25 26 27 28	21 22 23 24 25 26 27	20 21 22 23 24 25 26
27 28	29 30 31	28 29 30 31	27 28 29 30
MARCH	JUNE	SEPTEMBER	DECEMBER
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
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6 7 8 9 10 11 12	5 6 7 8 9 10 11	4 5 6 7 8 9 10	4 5 6 7 8 9 10
13 14 15 16 17 18 19	12 13 14 15 16 17 18	11 12 13 14 15 16 17	11 12 13 14 15 16 17
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2006

JA	APRIL	JULY	OCTOBER
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FEBRUARY	MAY	AUGUST	NOVEMBER
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26 27 28	28 29 30 31	27 28 29 30 31	26 27 28 29 30
MARCH	JUNE	SEPTEMBER	DECEMBER
SMTWTFS	SMTWTFS	SMTWTFS	SMTWTFS
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5 6 7 8 9 10 11	4 5 6 7 8 9 10	3 4 5 6 7 8 9	3 4 5 6 7 8 9
12 13 14 15 16 17 18	11 12 13 14 15 16 17	10 11 12 13 14 15 16	10 11 12 13 14 15 16
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***UNIVERSITY ACADEMIC CALENDAR**

2005 FALL SEMESTER

August 20	Saturday—Residence halls open for occupancy after 1:00 p.m.
August 22	Monday—Required assembly for orientation of beginning freshmen who did not attend Summer Orientation and Advanced Registration (SOAR) and new transfer students who did not attend Transfer SOAR
August 24	Wednesday—Regular classes begin
September 5	Monday—University closed for Labor Day holiday
October 14	Friday—Midterm; last day to apply for graduation for 2006 Summer Term
October 21-23	University closed for Fall Break
November 23-27	University closed for Thanksgiving holidays
December 8	Thursday—Study Day
December 9-15	Friday 8:00 a.m. through Thursday noon—Semester examinations
December 17	Saturday—Close of term; midyear commencement program, Flowers Hall

2006 SPRING SEMESTER

January 7	Saturday—Residence halls open for occupancy after 1:00 p.m.
January 9	Monday—Required assembly for orientation of beginning freshmen and new transfer students
January 11	Wednesday—Regular classes begin
January 16	Monday—University closed for Dr. Martin Luther King, Jr. Day holiday
February 17-19	University closed for Winter Break
March 3	Friday—Midterm; last day to apply for graduation for 2006 Fall Semester
March 27 - April 2	University closed for spring holidays; administrative offices remain open March 27 - 31 (<i>tentative</i>)
April 14	Friday—University closed
May 4	Thursday—Study Day
May 5-11	Friday 8:00 a.m. through Thursday noon—Semester examinations
May 13	Saturday—Close of term; commencement program, Flowers Hall

*All dates contained in this calendar are tentative and subject to change without prior notice.

SUMMER TERM SESSION ONE

June 4	Sunday—Residence halls open for occupancy after 1:00 p.m.
June 5	Monday—Required assembly for orientation of beginning freshmen and new transfer students
June 6	Tuesday—Regular classes begin
June 29	Thursday—Last day of classes; last day to apply for graduation for 2007 Spring Semester
June 30	Friday—Final examinations and close of session one

SESSION TWO

July 2	Sunday—Residence halls open for occupancy after 1:00 p.m.
July 4	Tuesday—University closed for Independence Day holiday
July 5	Wednesday—Regular classes begin
July 28	Friday—Last day of classes
July 31	Monday—Final examinations and close of session two

**SESSION ONE & TWO COMBINED
(EVENING PROGRAM AND SPECIAL COURSES)**

June 4	Sunday—Residence halls open for occupancy after 1:00 p.m.
June 5	Monday—Required assembly for orientation of beginning freshmen and new transfer students
June 6	Tuesday—Regular classes begin
June 29	Thursday—Last day to apply for graduation for 2007 Spring Semester
July 4	Tuesday—University closed for Independence Day holiday
July 28	Friday—Last day of classes
July 31	Monday—Final examinations and close of summer term

*All dates contained in this calendar are tentative and subject to change without prior notice.

DESCRIPTION OF THE UNIVERSITY

STATEMENT OF PURPOSE, ROLE, AND GOALS

The University of North Alabama is a comprehensive regional state university, offering undergraduate and graduate degrees, and serving the educational needs of students through all appropriate means of delivery. The University shares the broad purpose of all institutions of higher learning for the discovery, preservation, and transmission of knowledge through teaching, research, and public service. Within this broad purpose the University recognizes an obligation of service to the people and the needs of the state and the region. Toward the fulfillment of its purpose and role the University seeks to provide:

- a quality foundation of common knowledge, skills, and insights based on general studies to meet the students' needs for academic advancement, vocational attainment, responsible citizenship, and personal fulfillment;
- a broad range of high quality academic programs to prepare students to succeed in general, professional, preprofessional, and career fields founded in the arts and sciences, business, education, and nursing and allied health;
- a university environment which serves as a source of pride, which supports and complements academic preparation, and which extends the students' opportunities for intellectual, personal, ethical, and social development;
- an intellectual climate which promotes critical and independent thinking, and a free and open exchange of ideas;
- emphasis on and support for a high standard of excellence in teaching;
- aesthetic and cultural enrichment and activities for the surrounding community;
- support to individual and institutional basic and applied research which are integral to effective teaching and learning as well as to the University's fulfillment of its obligations for the general expansion of knowledge and for the economic development of the region and the state;
- extended access to the University's public service resources and programs in the interests of occupational advancement, personal enrichment, and community needs;
- world wide access to high quality distance learning opportunities; and
- a high quality international program that is intrinsic to the University's mission.

The university goals flow from and complement the Statement of Purpose and Role. These measurable goals are as follows:

- to offer general education programs which will provide students with a broad foundation of common knowledge, basic skills, and cultural insight;

- to graduate students who are competitive in their major fields and who demonstrate mastery of their subject areas;
- to provide library/informational resources and other support functions which include the technologies, materials, facilities, and services needed for quality teaching, research, and public service;
- to recruit and retain a diverse student population that indicates admission without regard to age, color, disability, national origin, race, creed, sex, or religion;
- to maintain an administrative system, including university advancement, which will support the attainment of institutional goals through effective management;
- to provide student-oriented programs, activities, and services that complement academic preparation and extend student opportunities;
- to provide a campus environment that serves as a source of pride and supports and complements the concept of a university community;
- to provide an intellectual climate which promotes critical and independent thinking, innovative programs, and a free and open exchange of ideas;
- to recruit and retain a diverse and highly qualified faculty who demonstrate excellence in teaching, in scholarly activities, and in public service;
- to recruit and retain faculty and staff without regard to age, color, disability, national origin, race, creed, sex, or religion;
- to extend access to university programs which will maintain a positive university-community relationship;
- to provide university research and public service support for economic development which enhances the region and the state; and
- to offer high quality distance learning opportunities with world wide access.

HISTORY AND LOCATION

The University occupies the beautiful campus of over 130 acres in a residential section of Florence, Alabama. Florence is located just north of the Tennessee River and is the largest city in a four-city area that includes Tusculmbia, Sheffield and Muscle Shoals. The entire metropolitan area has a combined population of approximately 140,000 people. The University of North Alabama, established in 1830 as LaGrange College, became in 1872 the first state-supported teachers' college south of the Ohio River and one of the first coed colleges in the nation. The University of North Alabama has developed into a comprehensive regional university providing quality educational opportunities for students, with majors in four colleges—arts and sciences, business, education, and nursing and allied health.

Graduate studies were introduced in 1957 with the establishment of master's degree programs in education, and have been characterized by continued expansion: a sixth-year program in education (1971), a master of business administration degree program (1975), a master of science in criminal justice degree program (1994), and a master of arts in English degree program (1999).

ORGANIZATION

The governing control of the University is vested in a Board of Trustees established by action of the State Legislature (HB 650, Act No. 773, September 9, 1967). The board is composed of the Governor as president ex officio, the State Superintendent of Education as a member ex officio, and nine members—six from within the area comprising the Fourth and Fifth Congressional Districts and three from the state at large—appointed by the Governor by and with the advice and consent of the State Senate. The chief administrative officer of the University is the President. The President is assisted and advised by an administrative staff, by members of the faculty and faculty agencies such as the Faculty Senate and the Graduate Council, and by various university committees. Each college of the University is administered by a dean, and each department by a chair.

The academic programs and courses of instruction of the University are organized under colleges and departments, as follows:

College of Arts and Sciences

Department of Art	Department of Mathematics
Department of Biology	and Computer Science
Department of Chemistry	Department of Military
and Industrial Hygiene	Science Department of
Department of Communications	Music Department of
and Theatre	Physics
Department of English	and Earth Science
Department of Foreign	Department of Psychology
Languages	Department of Social Work
Department of Geography	and Criminal Justice
Department of History	Department of Sociology
and Political Science	

College of Business

Department of Accounting	Department of Economics
and Business Law	and Finance
Department of Computer	Department of Management
Information Systems	and Marketing

College of Education

Department of Elementary	Department of Health,
Education	Physical Education, and
Department of Secondary	Recreation
Education	Department of Human
Department of Counselor	Environmental Sciences
Education	

College of Nursing and Allied Health

Department of Nursing

ACADEMIC FUNCTIONS AND PROGRAMS

The University operates on the semester system. Credit is based on the semester hour and each course of instruction carries a specific number of semester hours of credit. The school year is composed of two semesters, two 4-week summer sessions, and/or an eight-week summer term. The first semester begins in late August and ends in December; the second semester begins in January and ends in May; summer session I begins in June and ends in late June, summer session II begins in July and ends in late July, and the eight-week summer term begins in June and ends in late July. In the first or second semester the normal schedule will include from 15 to 18 semester hours of credit. The summer sessions and term provide for the equivalent of a full semester's work on a normal schedule of from 12 to 14 semester hours of credit. Classes meet Mondays through Fridays each term, with evening and Saturday classes also offered as an extension of the regular day schedule. The University provides for special short courses, conferences, institutes, and workshops, and for regular courses offered in off-campus locations and interim sessions and through distance learning. The University does not offer courses by correspondence.

Through its Colleges of Arts and Sciences, Business, Education, and Nursing and Allied Health, the University offers the following programs and educational opportunities:

1. The Bachelor of Arts or Science degree with major field options from art, biology (environmental, general, professional), chemistry (environmental, general, professional), communication arts with options in broadcast journalism, entertainment media production, entertainment publicity-promotion, journalism, public communication, public relations, radio-television-film and theatre, computer science, criminal justice, English with options in English, Language Arts, and Professional Writing, foreign languages with options in French, commercial French, German, commercial German, Spanish, commercial Spanish, geography (with options in Essential and Geographic Information Science), geology (general, professional), history, industrial hygiene, marine biology, mathematics, physics with options in professional physics, general physics, and general science, political science, professional writing, psychology, and sociology.
2. The Bachelor of Business Administration degree with major field options from accounting (professional, forensic), computer information systems (applications programming and design, applied micro systems design, business technology management), economics, finance (professional, banking and financial services), management (organizational and human resource, entrepreneurship, entertainment industry, hospitality), and marketing.
3. The Bachelor of Science degree with major field options from health-physical education-recreation, and human environmental sciences (merchandising, interior design, foods and nutrition, family resource management).

4. The Bachelor of Science in Education degree and qualification for recommendation for the Alabama Class B Professional Certificate in elementary K-6, P-12 programs, and secondary education.
5. The Bachelor of Science in Nursing degree. 6. The Bachelor of Social Work degree. 7. The Bachelor of Fine Arts degree.
8. The Bachelor of Arts in Music or the Bachelor of Science in Music degree with options in commercial music, sacred music, and performance.
9. Bachelor of Music in Music Education degree. 10. The Bachelor of General Studies degree.
11. Courses of study leading to the Bachelor of Arts or Bachelor of Science degrees based upon satisfactory completion of prescribed three-year curricula and the first year's work at a professional school of medicine, dentistry, or law.
12. Preprofessional preparation for programs in agriculture, architecture, dentistry, engineering, forestry, health sciences, law, medicine, medical technology, optometry, pharmacy, podiatry, veterinary medicine, and other fields for which from one to four years of undergraduate university coursework is appropriate to the program of the professional school or field.
13. Other programs, including the Senior Reserved Officers Training Corps program, and individual courses through which students may satisfy opportunities for personal interest or vocational advancement on credit or noncredit bases.
14. Minor fields of concentration are offered in most of the subjects listed for the majors. Please check specific departments for their offerings.
15. Graduate programs: See Graduate Catalog.

SPECIAL PROGRAMS

Dauphin Island Sea Laboratory. The University, along with 21 other colleges and universities in the State, is a member of the Marine Environmental Sciences Consortium (MESC) with the instructional and laboratory facilities located at the Dauphin Island Sea Lab. Summer instruction in marine science courses is available to eligible University of North Alabama students, and constitutes a part of the university's programs in biology, earth science, and geology, as outlined in the sections for the Departments of Biology and Physics and Earth Science.

Foreign Travel and Study. From time to time the University sponsors special student tours to foreign countries, usually in interim sessions and for periods of from one to three weeks. Academic credit in the general elective area may be earned through studies in conjunction with such tours under the designations and requirements prescribed for the Intercultural Experience (See "Colleges and Programs," College of Arts and Sciences:

Special Courses). Arrangements also may be made for students from this University to participate in appropriate foreign study programs sponsored by other accredited universities and recognized agencies. The Magellan Exchange program offers students the opportunity to study or intern for four-to-six month periods through an exchange program with several European universities. For more information, contact the Director of International Student Services. Students who have attended institutions outside the United States must have their transcripts evaluated by the World Education Services, Inc. (WES). (See "International Students," Admission to the University)

Honors Program. Students entering the University with an ACT composite score of 28 or above (or 1240 SAT score) and who graduate in the top 10 percent of their class are admitted as "honors students." In order to retain this distinction, students must maintain a 3.75 cumulative grade point average (on a 4.0 scale). All students who maintain a 3.75 cumulative average will have the words "With Honors" added to their diploma along with any other special words for which they qualify.

Honors Program in English. Any student with exceptional aptitude in English and literature as indicated by ACT/SAT scores may enter the Honors Program in English. The program includes special courses of study in First-Year Composition (121–122) and Honors Studies in Western Literature (233–234), and eligibility for the Honors Seminar in Literature (304). Students who complete the 15-hour honors sequence with a 3.0 average or higher on the last nine hours will be designated in commencement programs as graduating with "honors in English" and a notation will be made on their transcripts.

Army ROTC. The University in cooperation with the U.S. Army Cadet Command offers world-class leadership and management skills development and internships. The program prepares University of North Alabama students for officer responsibilities in the active Army, Army Reserve, or Army National Guard following graduation with a bachelor or graduate degree. The skills learned are in high demand in the public and private sector.

Freshman and sophomore courses (*no obligation to military service*) teach students to plan and organize, think under stress, and to lead. The courses develop the individual's skills in time management, team-building, and effective communications. Unique to this program is the opportunity to apply classroom instruction in real-world leadership and team building laboratories involving: rappelling, wilderness survival, orienteering, and marksmanship to increase confidence and self-discipline.

Junior and senior courses provide advanced leadership instruction and practical application of military planning and tactics, decision-making, and ethics. These courses prepare students for leadership responsibilities as officers in the Army.

Information on two-, three- and four-year competitive scholarships and summer internships is available from the Department of Military Science.

The Office of Continuing Studies and Outreach. The University offers a wide variety of continuing education courses ranging from general interest topics to credit courses. The Office of Continuing Studies and Outreach also conducts training courses for area businesses and industries. Other programs help professionals keep pace with rapidly changing developments in their respective fields. For additional information, please contact the Office of Continuing Studies and Outreach.

Distance Learning Program. The University offers an ever-expanding array of courses and programs via the Distance Learning Program. Classes are taught through interactive compressed video technology, video cassette instruction, and over the Internet. Distance Learning makes higher education available to students who experience scheduling conflicts caused by geographic distances, employment, family responsibilities, and other variables. For additional information, please contact the Coordinator of Distance Learning. Information may also be obtained from the dean's office or academic department offering the program.

Cooperative Education Program. Cooperative Education provides the student an opportunity to explore careers and gain work experience while attending college. The program includes numerous majors but is geared towards the technical fields such as geography and geographic information systems, industrial hygiene and chemistry, computer science and computer information systems, and environmental biology. After the freshman year, students spend alternate terms in classes and paid employment. The program normally requires one to three years and involves a minimum of two full-time work terms. *Inquiries concerning the program, standards of selection, and procedures for application should be directed to the Director of Career Services.*

Planetarium-Observatory. Among the special facilities at the University is a planetarium-observatory. The planetarium contains a Spitz projector and provides seating for 65. The connecting observatory includes a 14-inch Newtonian telescope, an 8-inch Schmidt-Cassegrain telescope, and a rotating dome. This facility serves regular university classes in astronomy and earth science. In addition, special showings may be scheduled for the general public and for school, college, civic, and other groups at minimal charges. Groups who wish to schedule showings should contact the Department of Physics and Earth Science.

LIBRARIES

The university libraries include Collier Library (the main library), the Learning Resources Center located in Stevens Hall, the Music Library located in the Music Building and the Kilby School Library. With combined holdings of one million items the libraries provide users with access to literature from a wide range of disciplines. Materials not found in the libraries are available through interlibrary loan. Instruction in methods of library research is available to all university classes.

The libraries' online catalog, many of the holdings, and other Internet resources are available through the library web site. The address of the University of North Alabama web site for library resources is www2.una.edu/library.

ALUMNI RELATIONS

The Office of Alumni Relations, in conjunction with the National Alumni Association, strives to promote fellowship and positive communication among and between its members and University as well as to support institutional growth and development. Two major goals of these entities are to raise scholarship support for students and to help graduates with job placement and career networking.

THE UNIVERSITY OF NORTH ALABAMA FOUNDATION

The Foundation is a 501(c)(3) corporation that has an Affiliation Agreement with the University. Its purpose is to raise, invest, and disburse funds to benefit the statement of purpose, role, and goals of the University. Gifts solicited by the Foundation are for a variety of purposes including scholarships, professorships, eminent scholar chairs, program support, library acquisitions, capital construction, and renovation.

STUDENTS WITH DISABILITIES

In accordance with the Americans with Disabilities Act, the University makes provisions to accommodate students with qualified physical, learning, and/or psychological disabilities. For assistance, students with disabilities should contact the Office of Developmental Services.

ACADEMIC FREEDOM AND RESPONSIBILITY

The University is firmly committed to the principle of freedom of thought, inquiry, and expression. No member of the university community may, in the exercise of academic freedom, deny the corresponding right of any other member of the university community, nor interfere with the legal and proper functions of the University.

STUDENT RIGHT-TO-KNOW

The University of North Alabama is in compliance with the Campus Security Act. Interested individuals may obtain a copy of the most recent university "Crime Awareness and Campus Security Report" from the Office of Research or view it on the UNA Public Safety web page at www2.una.edu/pubsafety under Clery Act Information.

ADMISSION TO THE UNIVERSITY

Students who are seeking admission or readmission to the University must file appropriate documents with the Office of Admission located in Bibb Graves Hall, Room 122. Regardless of intended major, all applications are processed in this office. High school and (if applicable) college transcripts are evaluated in this office, along with standardized test scores and other required admission-related items. In the case of transfer students, academic records are examined to determine eligibility for transfer credit.

Inasmuch as the academic programs in teacher education and nursing have special admission requirements in addition to the general admission requirements, acceptance to UNA does not necessarily constitute admission to either of these programs. Students who desire to enter teacher education or nursing should refer to those sections in this catalog and/or consult with the deans of those colleges for specific admission criteria.

POLICY OF NONDISCRIMINATION

The University of North Alabama is an equal opportunity institution and does not discriminate in the admission policy on the basis of race, color, sex, religion, disability, age, or national origin.

The University of North Alabama reserves the right to refuse admission to any applicant whose presence is deemed detrimental to the institution or its students.

PROCEDURES FOR ADMISSION

Each student must file a standard application for admission form accompanied by a nonrefundable \$25.00 application fee to cover processing costs. Application forms are available in most guidance and counseling offices of high schools and junior or community colleges in Alabama and the surrounding region. Otherwise, they may be obtained by contacting the UNA Office of Admission, UNA Box 5011, Florence, AL 35632-0001, or by calling (256) 765-4608. Outside of the local calling area, applicants may call 1-800-TALK-UNA (1-800-825-5862).

Students may seek admission to the University of North Alabama in any of the following categories:

Beginning Freshmen. Beginning freshmen are students who have never attended another college or university. Students who have attended another institution(s) during the summer immediately after high school graduation are also considered to be beginning freshmen. To support the application process, they are to ask that ACT (or SAT) scores and high school transcripts be sent directly to the UNA Office of Admission. Transcripts are typically sent by designated guidance counselors upon request by the students. If application is made while still enrolled in high school, the transcripts should show the latest available grades at least through the junior year, and ACT or SAT scores. Subsequently, final tran-

scripts must be sent showing confirmation of graduation and the graduation date. **Having these documents sent to UNA is the responsibility of the applicants**, and it should be clearly understood that application procedures are incomplete until all items are on file. Failure to complete this process will jeopardize students' admission to the University. Students seeking admission on the basis of General Education Development (GED) tests must have official copies of those scores sent.

Transfer Students. Applicants who have attended other colleges or universities will be considered as transfer students. Transfer student applicants must have transcripts sent from **all** previously attended institutions regardless of whether or not credit was actually earned. The application process requires that students list all institutions attended. Failure to do so may result in denial of admission or subsequent cancellation of admission. Transfer students who have earned fewer than 24 semester hours of credit must also submit high school transcripts and ACT (or SAT) scores, and must meet admission standards which are applied to beginning freshmen.

Former Students. UNA students who wish to reenroll after an absence of one or more fall or spring semesters must apply for readmission as former students. Summer terms have no effect on this category. Readmission forms are available in the Office of Admission. Former students should refer to the readmission requirements described later in this section under *Former Students*.

Transient Students. Students in good standing who are enrolled in a degree program at another college or university may, with the written approval of the parent institution, enroll at UNA as transient students. Such enrollment typically occurs during the summer months. Transient approval forms are available in the UNA Office of Admission and at most other institutions. This form should be filed instead of a transcript.

Early Scholars. Outstanding high school students may enroll at UNA as Early Scholars and take a limited number of college courses if they receive permission from their high schools. Forms are available in the UNA Office of Admission, and must be completed by the high school principal or guidance counselor. An official copy of the high school transcript should be sent by the high school directly to the UNA Office of Admissions.

Special Students. Under certain circumstances, students may enroll at UNA as special students. These are not considered to be degree-seeking students. Admission as a special student requires approval by the Dean of Enrollment Management. Additional information is available in this section under *Special Students*.

REQUIREMENTS FOR ADMISSION Beginning**Freshmen**

High school students should apply for admission as early as possible during the senior year. An official copy of the high school transcript, showing grades at least through the junior year and ACT or SAT scores, should be sent by the high school directly to the UNA Office of Admission. Transcript requests must be made by applicants.

A preliminary admission decision will be made on the basis of ACT (or SAT) scores and the high school record through the junior year. Confirmation of graduation and an official transcript of work completed in the senior year must be submitted before a final admission status will be determined.

Unconditional Admission. Graduates of approved high schools who meet the specified *general aptitude* and *academic competency* requirements may be granted unconditional admission to the freshman class at the University of North Alabama.

General Aptitude. Applicants must demonstrate general aptitude by: (1) obtaining a composite score of 18 or higher on the American College Test (ACT) or 870 or higher on the Scholastic Aptitude Test (SAT); or (2) ranking in the top 50 percent of their high school graduating class (proof of ranking should be furnished by the applicant to the Office of Admission).

Basic Competencies. Applicants must demonstrate academic competency by achieving a grade point average (GPA) of at least 2.0 (4.0 scale) on a core of at least 13 high school units distributed as follows:

- **English:** (4 units)
- **Mathematics:** algebra I, algebra II, geometry, trigonometry, statistics, or calculus (2 units)
- **Natural or Physical Science:** one biological and one physical science (2 units)
- **Social Studies:** one unit American history and at least 1/2 unit in government, with the balance from world history, state history, economics, geography, psychology, political science, or anthropology (3 units)
- **Other:** foreign languages, computer sciences, or any of the courses listed in the above areas which are not used to meet requirements in those areas (2 units)

Conditional Admission. High school graduates who do not meet the standards for unconditional admission may be granted conditional admission if they meet at least two of the following conditions: (1) the ACT composite score is 14 or above (SAT of 680 or above); (2) at least 11 units have been earned from among the high school academic core; (3) the GPA on the high school academic core is at least 1.5.

Students admitted conditionally will be restricted to carrying a maximum course load of 13 hours (six hours during the summer term) for the first semester or term of coursework under the supervision of an assigned adviser. Such students will follow prescribed courses of study designed to strengthen their basic skills in areas where weaknesses are apparent.

Conditionally admitted students who have completed one semester or term and who have earned a minimum cumulative grade point average of 1.60 will be granted unconditional admission status. Credit earned during the conditional period will apply, if appropriate, toward a regular undergraduate degree program. Students who earn less than a 1.60 cumulative grade point average at the end of the first semester or term will be placed on academic warning for the following semester. (See *Scholastic Standards* section in this catalog for further information)

Admission Exceptions. Special consideration will be given to certain categories of applicants. Exceptions will be made under the following conditions:

1. New freshmen that are discharged veterans must meet the admission requirements for unconditional or conditional admission. New freshmen that are honorably discharged veterans and eligible for admission may be granted unconditional admission.
2. Applicants who have successfully passed the General Education Development (GED) test and can present a copy of the Certificate of High School Equivalency (GED certificate) may be granted admission to the University if the high school class of which they were a member has graduated. ACT scores must be submitted if the student is under the age of 25 or if the high school class for which they were to graduate has been out less than five years. Students with an ACT score of 18 or higher will be granted unconditional admission to the University. Students not meeting this educational requirement may enroll only by obtaining special permission from the Dean of Enrollment Management.
3. High school graduates who have never attended college and who have been out of high school for five or more years, as well as those who are more than 25 years old, must comply only with the *basic competencies* requirement, and are exempt from the *general aptitude* standards.
4. Home-schooled applicants must meet the ACT/SAT and grade point average (GPA) requirements of unconditional admission if they present certified transcripts at the completion of their program. Applicants who do not present certified transcripts must take the General Education Development (GED) test and meet the admission requirements as outlined in item (2) listed above. Students not meeting this educational requirement may enroll only by obtaining special permission from the Dean of Enrollment Management.

Orientation. All freshmen should attend an orientation session prior to the beginning of the initial term of enrollment. For those students beginning in the fall semester, *Summer Orientation and Advanced Registration (SOAR)* sessions will be scheduled. The two-day sessions, which are offered during June and July, include orientation, academic advisement, and preregistration for the fall semester.

Transfer Students

Students transferring to UNA must have **all** institutions previously attended send official transcripts directly to the Office of Admission. Student records will be incomplete and final admission status cannot be determined until all documents are placed on file.

Eligibility. To enroll at the University of North Alabama, a transfer student must be eligible to return to the last institution attended. Ineligibility to return to the last school attended for academic, disciplinary, financial, or other reasons will normally make the student ineligible for admission to UNA. Students transferring fewer than 24 hours of acceptable coursework must meet ACT (SAT) scores and high school core minima required of beginning freshmen.

Transfer students who are on probation at the last institution attended will continue to be on probation at the University of North Alabama and will be subject to all regulations governing probation, suspension, and dismissal.

Upper-Division Credit Requirement. Students transferring work from a junior or community college must earn a minimum of 64 semester hours from UNA and/or other senior institutions in addition to meeting UNA residence requirements.

Orientation. All transfer students should attend an orientation session prior to the beginning of the initial term of enrollment. For those transfer students beginning in the fall semester, *Summer Orientation and Advanced Registration* sessions will be scheduled. The one-day sessions, which are offered during June and July, include orientation, academic advisement, and preregistration for the fall semester.

Former Students

Students who remain continuously enrolled (summer term excluded) are approved for registration each semester or term as long as they maintain the required academic standards. Students who have not been enrolled for one or more semesters, however, must file applications for readmission. These applications are available from the Office of Admission. Students who apply for readmission are subject to all published application deadlines.

Former students who apply for readmission after attending other institutions will be evaluated as transfer students and must meet the transfer student admission requirements. Transcripts must be requested from other institutions and will be evaluated and considered as a part of the readmission process. **This policy also applies to students who attend other institutions during the summer term.** Students may avoid this process by getting advance approval to take courses elsewhere as transient students. (See *Transient Students* earlier in this section for further information.)

Students who have been suspended are eligible to return to UNA after one full semester following such academic action. A summer term will not

fulfill a suspension period. Students who have been dismissed are eligible to return to UNA after one calendar year. Subsequent academic dismissal will result in a student being ineligible to enroll for a period of five years. Appropriate appeal forms are available from the Office of Admission. (See *Scholastic Standards* section in this catalog for further information)

Early Scholars

High School Sophomores, Juniors and Seniors. Students who rank above average in academic achievement may, upon the written recommendation of their principals or guidance counselors, be admitted for approved coursework. Early scholars who are high school juniors or seniors are allowed to enroll in up to five hours per semester at no cost, on a space available basis. Cost definition includes tuition only. Early scholars are still subject to any special fees such as applied music fees, technology fees, health fees, etc.

Students in Grades 7-9. Students certified in writing as gifted by their principal and local superintendent of education may be admitted for approved coursework.

Senior Scholars

Senior adults (those of age 60 and over) may enroll in one course per semester at no cost, on a space available basis. Cost definition includes tuition only. Senior Scholars are still subject to any special fees such as applied music fees, technology fees, health fees, etc.

Special Students

Eligibility. Special students must be at least 18 years of age and must hold a high school diploma or equivalency. Students not meeting this educational requirement may enroll only by obtaining special permission from the Dean of Enrollment Management.

Transcripts. Special students who have attended another college or university must have an official transcript from the last school attended sent to the Office of Admissions. Students who have attended another college or university and who have earned a bachelor's degree must also have an official transcript verifying that degree sent to the Office of Admissions. Students seeking teacher certification, MBA prerequisites or nontraditional fifth-year prerequisites must also have official transcripts from all previously attended institutions sent to the Office of Admissions. Students who have not attended another college or university must have their high school send an official transcript (or their testing agency send an official copy of the GED test scores).

Limitations. Special students cannot become candidates for a degree or be eligible for honors or offices unless and until they reapply and are admitted as regular degree seeking students. Up to 32 semester hours earned during special student status may be applied toward a degree program.

International Students

The University welcomes admission inquiries from international students. It finds that international students enrich the campus community and enhance the learning environment. In addition to all other requirements for admission to the University, international students whose native language is not English must meet the following requirements:

English Language Proficiency. The student must present an **official** score report of the Test of English as a Foreign Language (TOEFL) with a minimum score of 500 overall on the paper-based TOEFL or a minimum score of 173 overall on the computer-based TOEFL (or equivalency test as approved by the Dean of Enrollment Management).

Proof of Financial Support. The student must furnish evidence of sufficient funds to cover educational and living expenses. Sponsored applicants should have their sponsor(s) execute and send an Affidavit of Support (INS Form I-134). Applicants financing their own expenses should submit statements from banks, employers, etc.

Evaluation of International Transcripts. Students who have attended institutions outside the United States and Canada must have their transcripts evaluated by the World Education Services, Inc. (WES). Education majors, however, must have a WES evaluation for a Canadian transcript.

Insurance. All international students must have health insurance from a United States company for themselves and any dependents who accompany them. The insurance must be in effect the entire period of enrollment. For students who do not have coverage, the University provides this insurance through Hinchcliff International, Inc.

Special Students. International students who are participating in a university sponsored program to help them improve their English language skills through an English as a Second Language (ESL) course and other structured activities (e.g. UNA 101, University Experience) to become acclimated to American culture and the unique culture of the University will be considered Special Students as defined in the admission policy of the University.

ADMISSION TO GRADUATE STUDIES

Application for admission and supporting credentials should be filed with the Office of Admission.

A senior at this University who lacks ten semester hours or less for graduation and who otherwise meets requirements for admission may, for the term in which undergraduate requirements are to be satisfied, enroll in one or more courses for graduate credit, provided the combination of undergraduate and graduate work does not exceed the maximum hour load prescribed for a full-time graduate student. The acceptability of graduate credits earned in this manner is conditional upon satisfactory completion of all undergraduate requirements for graduation.

ADVANCED STANDING CREDIT**Credit by Transfer**

A student who has attended other institutions prior to transferring to the University of North Alabama must request each institution attended to submit an official transcript. When the student applies for admission and sends all final transcripts, the transcripts are evaluated for advanced standing credit. Copies of the evaluation are sent to the student and to the student's academic adviser. The initial evaluation becomes the basis for the awarding of transfer credit and is not subject to reevaluation thereafter except by reason of error.

All transcripts sent to the Office of Admission become part of the student's permanent record. In accordance with the Family Rights and Privacy Act of 1974, the transcripts may not be released to a third party.

It is the policy of the University of North Alabama to award fair equivalent credit for work done at other accredited colleges and universities. In evaluating transfer work, the following policies are applied:

1. Credit is accepted only from institutions accredited by a regional accrediting agency.
2. No credit is awarded for courses which the University of North Alabama considers remedial, vocational/technical, or sectarian in nature. No credit will be transferred for cooperative education or other work experience.
3. Courses in which a grade of **D** has been earned will transfer only if the student's cumulative grade point average on transferable work from each institution is at least a 2.0. The grade point average from each institution is computed separately. Credits accepted from other institutions by reason of transfer, transient, correspondence, or extension will be for credit hours only provided an average of **C** or better is earned on each separate enrollment. Grades earned at other institutions will not affect the student's grade point average at UNA.
4. A course from a junior college will transfer as the equivalent of a UNA course only if the UNA course is lower division (100-200 level). Junior college courses similar to upper-division courses (300-400 level) will transfer as lower-division electives only. Students transferring credits from junior colleges must take a minimum of 64 semester hours from UNA or other senior institutions.
5. No courses in professional nursing or professional education can be accepted from a junior college or a nonaccredited senior institution because the accrediting agencies of the Colleges of Nursing and Allied Health and Education, respectively, prohibit their acceptance. Furthermore, no courses will be accepted from any other teacher education program without prior authorization through standard transient study arrangement.

6. The University operates on the semester system. Credits earned in quarter hours will be evaluated in terms of semester hours on the basis with one quarter hour equaling two-thirds of a semester hour; e.g., a five quarter hour course equals three and one-third semester hours.
7. Students who have received academic suspension and/or dismissal at other institutions will have this fact noted on their UNA records and will be treated as if the academic suspension and/or dismissal had been earned at UNA. Students transferring on probation will have that probation transferred and in effect during the first term at UNA. All UNA policies regarding suspension and dismissal will apply to those transferring probations, suspensions, or dismissals.

Credit from Transient Student Status

A student who wishes to enroll temporarily at another institution to take coursework for transfer of credit back to the University must secure advance approval from the dean of the college in which the course(s) is/are taught.

In addition to the following regulations, the policies for transfer of courses taken while on transient status are the same as the transfer policies listed above:

1. No student on academic probation, academic warning, or conditional admission at the University of North Alabama may be approved for transient work. Students may not receive transient approval for courses failed in residence at UNA.
2. Inasmuch as the residence requirements for graduation stipulate that the last work done for the degree must be done at the University of North Alabama unless the work remaining is six hours or less, transient approval should be requested on the final courses needed for graduation only if the credit to be earned is six hours or less. See Graduation Requirements for further information.
3. A student enrolled at UNA may not enroll concurrently in courses at another institution unless extreme extenuating circumstances exist and only when the courses are not being offered at UNA. Special advanced approval is required.
4. Transcripts of transient work to be applied toward meeting graduation requirements must be received by the Office of the Registrar within the next semester after credit is earned, and at least four weeks prior to the date of graduation.
5. Credit for the course(s) will be accepted in partial fulfillment of degree requirements provided a grade of C or better is earned.
6. Students who enroll elsewhere without receiving advanced approval for transient credit will be considered as transfer students upon returning to UNA. They must file a readmission application and submit transcripts for evaluation. Transfer credit may not be approved.

Credit from Nontraditional Sources

The University will consider for advanced placement or advanced standing credit, appropriate service, coursework, and examinations from such nontraditional sources as active military service and service schools (based on the recommendation of the American Council on Education's Guide to the Evaluation of Educational Experiences in the Armed Services and the particular program for which enrolled), the United States Forces Institute (USFI), the College Entrance Examination Board's Advanced Placement Program, the College Level Examination Program (CLEP), the Defense Activity for Nontraditional Education Support (DANTES) program, and correspondence examinations (subject to a credit maximum from all such courses separately or in combination of **34** semester hours) and to additional limitations described below:

1. **Armed Forces Service Members, Reservists, and Veterans.** The University of North Alabama (UNA) is a member of the Servicemembers Opportunity Colleges (SOC) and participates in the Concurrent Admissions Program (ConAP) of the Army, Army Reserve, and Army National Guard. Through membership in SOC and participation in ConAP the University promotes educational opportunities for active duty service members, reservists and veterans. UNA provides programs and protections important to the needs of servicemembers in four specific areas, (1) transfer of credit; (2) academic residency requirements; (3) crediting learning from military training and experience; and (4) crediting extracurricular learning. Armed Forces Service members, Reservists, and Veterans should consult with the Office of Admission to determine the service credits they are eligible to receive under the provisions of the SOC programs. Army, Army Reserve, and Army National Guard enlistees interested in the ConAP program should address inquiries and applications to their respective military recruiters and UNA's Office of Admission.
2. **Advanced Placement Examinations.** High school students who take Advanced Placement courses and the accompanying CEEB Advanced Placement Examinations may receive credit for the examinations listed below if the required minimum score is earned. Students seeking advanced standing credit through AP examinations should have the Educational Testing Service forward official School and Examination reports directly to the Office of Admission prior to initial enrollment.

AP Examination	Min. Score	UNA Course Equivalency-Credit
American History (Part 1)	3	History 201-202 (6)
Art History	3	Art 170 (3)
Biology	3	Biology 111-112 (8)
Calculus AB	3	Mathematics 125 (4)
Calculus BC	3	Mathematics 125-126 (8)
Chemistry	3	Chemistry 111-112, 111L

AP Examination	Min. Score	UNA Course Equivalency-Credit
Computer Science A	4	Computer Science 155 (3)
Computer Science AB	4	Computer Science 155 (3)
Economics (Macro)	3	Economics 251 (3)
Economics (Micro)	3	Economics 252 (3)
* English Language/Composition	3	English 111 (3)
	4	English 111-112 (6)
	5	English 121-122 (6)
* English Literature/Composition	3	English 111 (3)
	4	English 111-112 (6)
	5	English 121-122 (6)
European History	3	History 102 (3)
French Language	3	French 101-102, 111-112 (8)
	4	French 101-102, 111-112, 201 (11)
	5	French 101-102, 111-112, 201-202 (14)
French Literature	3	French 400 (3)
	4	French 400, 401 (6)t
German Language	3	German 101-102, 111-112 (8)
	4	German 101-102, 111-112, 201 (11)
	5	German 101-102, 111-112, 201-202 (14)
Government & Politics, American	3	Political Science 241 (3)
Latin, Vergil	3	General Elective (3)
Latin, Catullus-Horace	3	General Elective (3)
Physics B	3	Physics 101 (4)
Spanish Language	3	Spanish 101-102, 111-112 (8)
	4	Spanish 101-102, 111-112, 201 (11)
	5	Spanish 101-102, 111-112, 201-202 (14)
Spanish Literature	3	Spanish 400 (3)
	4	Spanish 400, 401 (6)
Statistics	3	Mathematics 147 (3)

3. **College Level Examination Program.** The CEEB-CLEP program advanced standing credit may be earned only through the Subject Examinations. No credit may be earned through the General Examinations. CLEP scores must be submitted to the Office of Admission on the official transcript form directly from the College

* Maximum credit awarded in English is six semester hours (for either test but not both). Students who receive AP credit for English 120-121 are required to enroll in English 233-234, Honors Studies in Western Literature.

Entrance Examination Board. Acceptable minimum scores are subject to change according to norming revisions by CEEB. A six months' waiting period is required before repeating a CLEP test.

Advanced standing credit may be earned for the specific subject examinations on the minimum scores and for the university course equivalencies indicated below. Credit through subject examinations may not be earned for courses in which previously or currently enrolled, including courses failed in residence, for courses in which credit already has been earned in coursework at a higher level with the exception of foreign language courses, or for both subject examination and its equivalent course. Also with the exception of foreign languages, credit may not be earned through a CLEP subject examination for one or both of a sequence of courses, e.g., general biology, if one of the courses has been attempted in residence. Final decision regarding award of credit for EN 111 (3) or EN 111-112 (6) will be based on evaluation of the Optional Essay. Satisfactory score on the objective portion of the examination does **not** guarantee awarding of credit.

CLEP subject examinations may be taken for credit only with the written approval of the dean of the college in which enrolled. Official application forms for CLEP testing should be obtained from the Center for Academic Advising and Retention Services.

Subject Examination	Min. Score	UNA Course Equivalency-Credit
American Government	50	Political Science 241 (3)
History of the United States I	50	History 201 (3)
History of the United States II	50	History 202 (3)
College Algebra	50	Mathematics 112 (3)
College Algebra-Trigonometry	50	Mathematics 112-113 (6)
* English Composition	50	English 111 (3) or 111-112 (6)
College French, Levels 1 and 2	50 62	French 101-102, 111-112 (8) French 101-102, 111-112, 201-202 (14)
College German, Levels 1 and 2	50 63	German 101-102, 111-112 (8) German 101-102, 111-112, 201-202 (14)
College Spanish Levels 1 and 2	50 66	Spanish 101-102, 111-112 (8) Spanish 101-102, 111-112, 201-202 (14)
General Biology	50	Biology 111-112 (8)
General Chemistry	50	Chemistry 111-112 (6)
Human Growth and Development	50	Education 299 (3)
Principles of Management	50	Management 330 (3)
Introductory Accounting	50	Accounting 291-292 (6)
Introductory Business Law	50	Business Law 240 (3)
Principles of Macroeconomics	50	Economics 251 (3)
Principles of Microeconomics	50	Economics 252 (3)

* Optional Essay Required.

Subject Examination	Min. Score	UNA Course Equivalency-Credit
Introductory Psychology	50	Psychology 201 (3)
Introductory Sociology	50	Sociology 221 (3)
Principles of Marketing	50	Marketing 360 (3)
Trigonometry	50	Mathematics 113 (3)
Western Civilization I	50	History 101 (3)
Western Civilization II	50	History 102 (3)

4.

Defense Activity for Nontraditional Education Support (DANTES) Program.

Advanced standing credit may be earned through the Subject Examinations of the DANTES Program. DANTES examination scores must be submitted to the Office of Admission on an official transcript form sent directly from the Educational Testing Service (ETS). Acceptable minimum scores are subject to change according to norming revisions by ETS.

Advanced standing credit may be earned by making the minimum scores required for the university course equivalencies indicated below. Credit through DANTES examinations may not be earned for courses in which previously or currently enrolled, including courses failed in residence, for courses in which credit already has been earned in coursework at a higher level with the exception of foreign language course, or for both the DANTES examination and its equivalent course. Also with the exception of foreign languages, credit may not be earned through a DANTES examination for one or both of a sequence of courses if one of the courses has been attempted in residence.

DANTES examinations may be taken for credit only with the written approval of the dean of the college in which enrolled. Official application forms for DANTES testing should be obtained from the Center for Academic Advising and Retention Services.

Subject Examination	Min. Score	UNA Course Equivalency-Credit
A History of the Vietnam War	49	History Elective (3) (300 or 400 level)
An Introduction to the Modern Middle East	44	History Elective (3) (300 or 400 level)
Art of the Western World	48	Art 170 (3)
Beginning German I	45	German 101 (3)
Beginning German II	45	German 102 (3)
Beginning Spanish I	48	Spanish 101 (3)
Beginning Spanish II	46	Spanish 102 (3)
Contemporary Western Europe: (1946-1990)	48	History Elective (3) (300 or 400 level)
Ethics in America	67	Philosophy Elective (3) (300 or 400 level)
Introduction to Business	46	Management 100 (3)
Introduction to Law Enforcement	48	Criminal Justice 250 (3)
Introduction to World Religions	49	Religion 401 (3)

Subject Examination	Min. Score	UNA Course Equivalency-Credit
Introductory College Algebra	46	Mathematics 100 (3)
Lifespan Developmental Psychology	47	Psychology Elective (3)
Personnel/Human Resource Management	48	Management 331 (3)
Principles of Financial Accounting	47	Accounting 291 (3)
Principles of Real Estate	48	Finance 325 (3)
Principles of Statistics	48	Mathematics 147 (3)
Risk and Insurance	50	Finance 355 (3)
War and Peace in the Nuclear Age	53	History Elective (3) (300 or 400 level)

5. **Correspondence.** The University does not offer courses by correspondence. Appropriate credit earned through correspondence from other accredited colleges or universities with a grade of C or higher will be accepted, subject to the following provisions: (a) after initial enrollment at the University, students who wish to take work through correspondence must have the **prior written approval** of the dean of the college in which enrolled; (b) students who are on academic probation may not be approved for correspondence courses; (c) students may not be approved for correspondence work while concurrently enrolled in residence work, except under extraordinary circumstances; (d) when approved, work through correspondence normally will be limited to one course in any term and must be completed within that term; (e) courses failed in residence may not be retaken by correspondence; (f) acceptance of credit earned by correspondence while in prior attendance at another institution is subject to the above limitations.
6. **Certified Professional Secretary (CPS).** Anyone attaining the CPS rating will be granted nine semester hours of general business elective credit toward completion of any UNA degree upon proper verification to the dean of the college in which enrolled.

All credit accepted from the above nontraditional sources will be considered as transfer credit for semester hours credit only. Grade-quality points are not given, and the student's grade point average on coursework taken at this University is not affected thereby.

Retention And Disposal Of Admission Files

Admission records, including the original application for admission, transcripts, and the supporting credentials, are forwarded to the Registrar's Office when students enroll at the University. All other files are retained in the Office of Admission as inactive records for a period of two years from the beginning of the semester or term for which application was made.

The inactive records include those for applicants (1) who were admitted but did not enroll; (2) who were rejected; (3) who cancelled their applications; and (4) whose files were incomplete. All records will be destroyed after remaining in the inactive files for two years.

EXPENSES

ESTIMATED EXPENSES

The estimated tuition and fees listed in this publication for the academic year are subject to adjustment without notice. These expenses must be paid in full at the time the student registers for class each term or, in the case of preregistration, as directed on the invoice. A check tendered for payment which is not honored by the drawee is not proper payment.

A summary of estimated expenses for students who are Alabama residents for fee purposes, as determined by the University, and who take a course load of 12 hours follows **(these fees are based on the previous year's fee structure, are subject to change, and should be used only as a guideline for planning):**

SUMMARY OF ESTIMATED TUITION AND FEES

TUITION and FEES	Each Semester	Summer Term
Undergraduate Alabama		
Resident Tuition (12 Hours)	\$1,668.00	(12 hrs.) \$1,668.00
Room Rent		
–Rice, Rivers, or LaGrange Hall:		
Double Occupancy	\$ 980.00	(8 wks.) 467.00
Single Occupancy	1,330.00	(8 wks.) 710.00
Extended Housing	Available Upon Request	
–Appleby East, Appleby West, Covington, or Hawthorne Hall:	(12 month contract required)	
Double Occupancy	\$1,650.00 (full summer)	\$660.00
14 meals per week	1,090.00	
10 meals per week	880.00	
10 meals per week + \$100 flex dollars	980.00	
7 meals per week + \$100 flex dollars	840.00	
5 meals per week + \$100 flex dollars	735.00	
5 meals per week	635.00	
Block Meal Plan	not available	
(\$1.00 per credit hour)	5.00	
Student Recreation Facility Fee		
(\$6.00 per credit hour)	108.00	
Student Health Fee		
(\$2.00 per credit hour)	20.00	
Special Course Fee (each)	30.00	

Single Occupancy	1,825.00 (full summer)	730.00
Meal Plans (<i>choose one</i>):		
	not available	not available
	not available	not available
	not available	not available
	(80 Block) 465.00	
	(50 Block) 325.00	(40 Block) 240.00
	not available	(110 Block) 700.00
	not available	(140 Block) 825.00
Technology Fee		
(\$9.00 per hr.)	(<i>calculated for 12 hrs.</i>) 108.00	108.00
Student Activity Fee		5.00
	108.00	
	20.00	30.00

Motor Vehicle Registration (academic year)	32.00	
Books and Supplies (est.)	415.00	210.00
Estimated Total		
Including Room and Meal Plan	\$4,001.00	\$2,876.00
	to \$4,806.00	to \$3,684.00
Estimated Total		
Excluding Room and Meal Plan	\$2,206.00	\$2,149.00

SCHEDULE OF TUITION*Undergraduate Tuition**

Resident		Non-Resident	
Credit Hour	Tuition Amount	Credit Hour	Tuition Amount
1	\$139.00	1	\$278.00
2	\$278.00	2	\$556.00
3	\$417.00	3	\$834.00
4	\$556.00	4	\$1,112.00
5	\$695.00	5	\$1,390.00
6	\$834.00	6	\$1,668.00
7	\$973.00	7	\$1,946.00
8	\$1,112.00	8	\$2,224.00
9	\$1,251.00	9	\$2,502.00
10	\$1,390.00	10	\$2,780.00
11	\$1,529.00	11	\$3,058.00
12	\$1,668.00	12	\$3,336.00
13	\$1,700.00	13	\$3,400.00
14	\$1,732.00	14	\$3,464.00
15	\$1,764.00	15	\$3,528.00
16	\$1,796.00	16	\$3,592.00
17	\$1,907.00	17	\$3,814.00
18	\$2,018.00	18	\$4,036.00
19	\$2,129.00	19	\$4,258.00
20	\$2,240.00	20	\$4,480.00
21	\$2,351.00	21	\$4,702.00
22	\$2,462.00	22	\$4,924.00
23	\$2,573.00	23	\$5,146.00

Students are expected to meet all financial obligations when they fall due. It is each student's responsibility to be informed of all payment due dates, deadlines, and other requirements by referring to official sources of university information such as the catalog, official schedule of classes and exam schedule, announcements printed in the Flor-Ala, or information that is disseminated by other means from time to time. Delinquent accounts are subject to a late charge of \$50 and cancellation of schedule. A charge of \$75 may apply to reinstate a cancelled schedule. Students owing charges for prior

*Tuition is based on previous year's fee structure and is subject to change, and should be used only as a guideline for planning.

terms will not be allowed to register for future terms until all charges are paid.

Collection costs or charges along with all attorney fees necessary for the collection of any debt to the University will be charged to and paid by the debtor.

Any Federal Title IV financial aid recipients who withdraw on or after the official class begin date will be liable for any funds the University of North Alabama repays to the applicable federal program as a result of the withdrawal. These amounts will be charged back to the student's financial account. University collection procedures will apply to recover these funds.

OTHER FEES AND CHARGES (Nonrefundable, except as noted):

Application Fee	\$ 25.00
Housing Application Fee	100.00
University Apartment Deposit – Refundable	200.00
Lion's Gate Apartment Deposit – Refundable	200.00
Late Registration Fee	30.00
Change of Course Fee	10.00
Graduation Fee	30.00
Transcript Fee (no charge for first request)	5.00
Program Check Sheet	5.00
I.D. Card & Meal Ticket Replacement	10.00
Motor Vehicle Registration	32.00/year
Student Health Fee	20.00/semester
International Student Fee	275.00/semester
Student Activity Fee	5.00/semester
Student Recreation Center Fee	108.00/semester
Technology Fee	9.00/credit hour
Distance Learning Fee	30.00/course
College of Education	
Alabama Teachers Certification Fee	20.00
Education Internship Late Fee	25.00
Teacher Certification Evaluation	15.00
Background clearance/fingerprinting fee	49.00

HOUSING CHARGES (subject to change):

Residence Halls (Prices may vary depending on the building and room type)

Room Rent	Each Semester	Summer Term
–Rice, Rivers, or LaGrange Hall:	(9-Month Housing Contract)	
Double Occupancy	\$ 980.00	(8 wks.) 467.00
Single Occupancy	1,330.00	(8 wks.) 710.00
Extended Housing	(Available Upon Request)	
–Appleby East, Appleby West, Covington, or Hawthorne Hall:	(12-Month Housing contract)	
Double Occupancy	\$1,650.00 (full summer)	\$660.00
Single Occupancy	1,825.00 (full summer)	730.00

No summer classes required

Note: All residence hall rates include cable television, local telephone service, UNA Internet service, and computer lab access. Refer to the contract for all policies regarding cancellation procedures.

University Apartments

Rent		\$397.00/month*
Utility Deposit (contact Florence Utilities)		

Lion's Gate Apartments

Rent	1,000 sq. ft.	\$464.00/month*
Rent	1,100 sq. ft.	\$479.00/month*
Utility Deposit (contact Florence Utilities)		

*includes cable service

	Each Semester	Note: All apartment leases terminate on May 31 but can be renewed each April.
14 meals per week	1,090.00	
10 meals per week	880.00	
10 meals per week + \$100 flex dollars	980.00	
7 meals per week + \$100 flex dollars	840.00	
5 meals per week + \$100 flex dollars	735.00	FOOD
5 meals per week	635.00	
Block Meal Plan	not available	CONTRACT/MEA

L PLANS:

Summer Term
 not available not available not available not available not available not available
 available
 (80 Block) 465.00

(50 Block) 325.00	(40 Block) 240.00
not available (110 Block) 700.00	
not available (140 Block) 825.00	

Note: Students under 20 years of age who elect to live in Rice, Rivers, or LaGrange residence halls must purchase a meal plan unless they have attended college for more than nine months after high school graduation (one academic year). All meal plans, except the block meal plans, meet this requirement. No meal plan is required for students who elect to live in Appleby East, Appleby West, Covington, or Hawthorne residence halls or in campus-owned apartments.

TUITION FOR UNDERGRADUATE CREDIT:

Students enrolling for undergraduate credit, remedial courses, or who audit undergraduate courses will pay tuition of \$139.00 per semester hour or equivalent for the first 12 hours enrolled each semester. There will be a charge of \$32.00 per hour for hours taken from 13 through 16 hours a semester. The tuition charge for each semester hour above 16 in a semester or 12 in a summer term is \$111.00.

TUITION FOR GRADUATE CREDIT:

Students taking courses for graduate credit or who audit graduate courses will pay tuition of \$162.00 for each semester hour taken.

NONRESIDENT FEE:

Undergraduate students who are not Alabama residents for fee purposes, as determined by the University, will pay in addition to all other fees and charges a nonresident fee of \$139.00 for each semester hour for the first 12 hours enrolled each semester. There will be an additional charge of

\$32.00 per hour for hours taken from 13 through 16 hours a semester. An additional fee of \$111.00 will be charged for each semester hour above 16 in a semester or 12 in a summer term.

Graduate students who are not Alabama residents for fee purposes, as determined by the University, will pay in addition to all other fees and charges a nonresident fee of \$162.00 for each semester hour.

ON-LINE MBA COURSES:

Students taking courses for graduate credit or who audit graduate courses will pay tuition of \$162.00 for each semester hour taken.

Residents of Alcorn, Itawamba, Prentiss, and Tishomingo counties in Mississippi and residents of Decatur, Giles, Hardin, Lawrence, Lewis, McNairy, and Wayne counties in Tennessee will be allowed to attend the University at the same tuition rate assessed to in-state residents.

UNDERGRADUATE SPECIAL COURSE FEES:

1. A special fee of \$30.00 is charged for each of the following courses:

College of Arts and Sciences

AR: 200, 300, 302, 311, 312, 335, 351, 352, 391, 392, 401, 404, 405, 411, 451, 491.
BI: 101, 102, 111, 112, 141, 142, 305, 306, 307, 310, 311, 340, 341, 362, 363, 380, 407, 409, 421, 423, 433, 451, 452, 460, 463, 471, 472, 495, 499.
CH: 101L, 102L, 111L, 112L, 311L, 312L, 321LW, 322L, 341L, 371L, 380, 381L, 382L, 432LW, 434L, 437L, 475L, 495.
COM: 240, 241, 242, 380, 430, 460, 480.
ENT: 300, 335, 425, 426, 430.
ES: 121L, 131, 132, 245, 308, 345, 380, 421W, 480, 481, 482, 483.
FR: 111, 112, 201, 202.
GE: 111, 112, 225, 435. **GR:** 111, 112, 201, 202. **IH:** 422, 444, 490, 495.
PH: 101, 121, 125, 241, 242, 251, 252, 380, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489.
SP: 103, 111, 112, 201, 202. **TH:** 340, 350, 360, 480.

College of Education

ECE: 312.
HES: 241, 242, 353, 433, 441, 455, 463.
HED: 155.
PE: 108, 109, 112, 118, 136, 353W, 441.

College of Nursing and Allied Health

NU: 301, 302, 304, 305, 306, 308, 407, 409, 410, 411, 414.

2. A special fee of \$60.00 for each credit hour is charged for the following courses:

College of Arts and Sciences

MU: 111, 112, 113, 114, 115, 116, 117, 118, 211, 212, 213, 214, 215, 216, 217, 218, 311, 312, 313, 314, 315, 316, 317, 318, 411, 412, 413, 414, 415, 416, 417, 418.

3. A special fee of \$60.00 is charged for each of the following courses:

College of Education

ED: 482, 484.

EED: 472.

HOUSING APPLICATION FEE AND APARTMENT DEPOSIT

Residence Hall: Housing applications will be processed upon receipt of a contract and nonrefundable application fee which must be a check or money order for \$100.00 (one hundred dollars) made payable to the University of North Alabama. The housing application fee is considered a continuing fee for subsequent assignments as long as the student remains in campus housing. Cancellation of the housing contract prior to the end of the contracted period will result in a cancellation charge equal to or less than the room rent. There is no contract buyout for 12-month residence halls (Appleby East and West, Covington, and Hawthorne).

Apartment Deposits: An application for an apartment rental must be accompanied by a deposit. The apartment deposit is \$200.00 for all units per single adult tenant or married couple. Upon occupancy, the deposit becomes an apartment security deposit retained by the University as a credit against any charges for property damage or loss or for cleaning if the apartment is not left in good order. Damages, losses, or cleaning costs in excess of deposits must be paid immediately and before a student registers or receives any services from the University. The deposit is refundable if the tenant has met conditions in the lease. The Physical Plant Department and the Department of Housing and Residence Life will assess the apartment for damages at the time the apartment is vacated by the tenant. Any refund of the deposit is subject to other charges that the tenant may owe the University.

REFUNDS

Advance Payments: The application for admission fee is not refundable. The housing application fee is nonrefundable. The apartment deposit is refundable prior to lease signing or only if proper notice of cancellation is received as specified in the rental lease agreement. Other university fees and charges paid in advance of the opening of the term through preregistration and other processes are refundable in full if registration is cancelled by notification to the Office of the Registrar prior to the beginning of the regular registration period for that term.

After Registration: Following payment of university fees and charges at initial registration, eligibility for refunds is governed by the following limitations and schedules:

1. Registration and credit hour fees are refundable on a pro rata basis. All other fees are nonrefundable.
2. Room rent and meal charges are refundable only upon official withdrawal from the University according to the university refund policy. No refund is made for room if withdrawal from school occurs after the time limit for receiving a 25 percent refund on the comprehensive fee. Meal contracts are for the full term. No eligibility for refund is established if the student moves out of the residence hall or ceases to use the meal plan but remains enrolled in the University. If a student is dismissed from a residence hall for disciplinary reasons, there shall be no refund of room rent. No apartment rental refund is made for the month in which the apartment is vacated.
3. A student who withdraws from the University or from one or more courses must make application for a refund within the time frame specified in Item 1 above.
4. The refund period will be reduced by half for accelerated courses beginning or ending at or near the midpoint of the school term, with the period being determined from the first day of class. No refund will be made for classes scheduled at Dauphin Island after classes are scheduled to begin there.
5. No refund is made for those "Other Fees and Charges" which include application for admission, orientation, late registration, change of course, graduation, transcript, certificate, check sheet, vehicle registration, I.D. card and meal plan replacement, health fee, and education block fees and charges. No refund is made to a student who is administratively withdrawn from the University unless otherwise authorized by the appropriate administrative authority.

Refund Procedures: A refund is made only under proper application at the Business Office and is subject to deductions for any indebtedness to the University, including payments under Title IV student aid programs. Refunds for complete withdrawal from all classes are paid by check and mailed to the student's home address unless original payment method was by credit card. Refunds due on accounts paid by credit card will be refunded to the credit card. Other refunds are mailed to the student's campus post office box. Three weeks should be allowed for processing.

FINANCIAL HOLD

A financial hold will be placed on the student's academic record when there is any past due financial obligation to the University. When there is a financial hold, the student will not be permitted to reenroll or receive transcripts or any other service from the University.

MONTHLY PAYMENT OPTIONS FOR STUDENTS AND FAMILIES

The University of North Alabama provides through a commercial payment plan a Monthly Payment Option which enable students and families to spread all or part of annual expenses over equal monthly payments eliminating the need for lump sum payments at the beginning of each term.

- **Interest-Free Monthly Payment Option** is designed for students and families who do *not* want or need a loan to pay for tuition and other educational expenses, but who are interested in spreading payments out prior to and during each semester. This Interest-Free Monthly Payment Option is available to all students and families for a small annual upfront service fee.

Additional information about Monthly Payment Options for students and families is available from the Business Office at (256) 765-4441 or 1-800TALK UNA, ext. 4441.

STUDENT FINANCIAL SERVICES

The Office of Student Financial Services provides information, publications, and counseling related to the comprehensive financial assistance program offered by the University. Students and prospective students are encouraged to inquire and seek other financial aid information in person, on the phone, or by email.

Federal Programs

The University participates in federal Title IV student aid programs, including Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Perkins Loan, Federal Work Study, and Federal Family Educational Loans.

Application. Students may apply for all federal student aid programs at UNA by filing the Free Application for Federal Student Aid and requesting that the federal processor make application data available to UNA. Students are encouraged to file the FAFSA on-line and assistance is available from Student Financial Services. More details and due dates are posted on the UNA web page.

Eligible Classifications. A student must be enrolled in an eligible program in order to receive federal financial assistance. Special students and transient students are not eligible for federal financial aid, including federal student loans.

Return of Title IV Funds. A student who receives federal student aid (except Federal Work Study) and subsequently withdraws from the University is subject to federal regulations and may have to return a portion of federal aid to the University.

Satisfactory Academic Progress. To be eligible for federal student aid, a student must show academic progress toward the stated degree goal. After a student has attempted 24 hours of academic work at UNA, the student's academic progress is checked once each academic year at the end of the spring semester. The student must meet the following standards of academic progress:

1. **Academic Standing.** An applicant who is on academic probation is not eligible to receive federal student aid.
2. **Hours Completed/Hours Attempted Comparison.** An applicant must pass 75 percent of all work attempted at UNA. All hours attempted at UNA, including hours which may have been dropped, and terms from which the applicant may have withdrawn, are included in this calculation.
3. **Maximum Time Frame:** A student is allowed a maximum of 172 hours to complete undergraduate degree requirements; an additional 45 hours to complete graduate degree requirements.

Complete details on this policy, including reinstatement and appeal options, are available on the UNA web page or upon request from Student Financial Services.

State Student Aid Programs

The University participates in numerous programs sponsored by the state of Alabama, including the Alabama Student Assistance Program (ASAP). No separate or additional application is required for ASAP. Eligibility is based on FAFSA data. A complete listing of state student aid available to UNA students is available on the UNA web page.

University Programs

Scholarships. The University of North Alabama offers a comprehensive scholarship program, including merit (academic and leadership), service, performance (music and athletic), and talent scholarships. In addition, generous benefactors have endowed numerous scholarships over the years. The current scholarship program is outlined in detail on the UNA web page, where a complete index of endowed scholarships is also available.

Student Employment. Several hundred part-time jobs are available on campus through the University Work Study program. Details on finding a campus job are posted on the web page and assistance is available upon request from Student Financial Services.

STUDENT AFFAIRS

OBJECTIVES OF THE DIVISION OF STUDENT AFFAIRS

The Division of Student Affairs is dedicated to providing appropriate services and experiences which contribute to the total development of each student. To facilitate the student development process, the Division of Student Affairs offers programs, activities, and services which complement and enhance the student's collegiate experience. Programs provided by the Office of Student Life, the Department of Housing and Residence Life, Career Services, University Events, and University Health Services serve to implement student development.

STUDENT SERVICES

Accommodation for Disability. In accordance with the Americans with Disabilities Act (ADA), the University offers accommodations to students with documented learning, physical and/or psychological disabilities. It is the responsibility of the student to contact Developmental Services prior to the beginning of the semester to initiate the accommodation process and to notify instructors within the first three class meetings to develop an accommodation plan. Course requirements will not be waived but, if possible, reasonable accommodations will be made to allow each student to meet course requirements. Students needing assistance should contact Developmental Services.

Academic Resource Center. The ARC provides services for all UNA students, including self-paced programs, multimedia resources, typewriters, cd burners, peer tutoring services, faculty mentoring, and a place to study and relax. Windows and Macintosh computers are available with general and specialized software, internet access, scanners, and laser and network printing. A fax machine is also available for student use.

Programming and Entertainment. The University provides diverse programming for students, staff, and faculty featuring noted lecturers, artists, and actors. Special programs, recitals, plays, art exhibitions, and concerts are provided through the fine arts departments and the Student Government Association's University Program Council (UPC), including the traditional events for the campus, such as the Miss UNA Pageant, Spring Fling, Step Sing, Homecoming and "Welcome Week".

Student Activities. UNA students participate in a wide variety of activities and entertainment, from athletics, recreational sports and fitness, and cheerleading to musicals, dramatics, publications, student governance and Greek life. Information about these activities may be found on the university's web site.

Student Organizations. UNA recognizes over 100 student organizations that respond to a broad variety of interests, providing learning opportunities in the areas of scholarship, recreation, leadership, and service. The Office of Student Life has a list of recognized Student Organizations and requirements for forming new groups.

Leadership Development. UNA provides ample opportunities for leadership development through various organizations such as Freshman Forum, Leadership UNA program, Leading Edge Institute, Student Government Association, Leadership Education and Development, Student Orientation, Advisement, and Registration (SOAR) Counselors and Greek Life.

Housing. A variety of housing options on a first-come, first-served basis meet individual student needs. Residence halls and student apartments are available for year-round accommodation. Information about housing options is available in the Department of Housing and Residence Life.

Dining. Dining services are provided by Sodexo, Inc. and are located in the Guillot University Center and Towers Cafeteria.

Testing Services. National testing programs including the ACT, SAT, CLEP, GED, GRE, and MCAT are given through the Center for Academic Advising and Retention Services. The CAAP examination is required for graduation. Information about the MAT and Alabama Prospective Teacher Testing Program may be obtained in the Office of the Dean of the College of Education.

Career Services. Career advising is available to assist students in making educational and career decisions. Services are also offered to aid students in job search efforts through the On-Campus Interviewing Program, Employer Referral System, Résumé Center, Career and Graduate School Fairs, and Part-Time Job Listings.

Health Services. UNA's Health Center, located in Bennett Infirmary, is an outpatient, acute care clinic on campus. It is designed to meet the basic health care needs of our students and employees. Services available include treatment of short-term illnesses and minor injuries; basic physical exams; allergy injections and some immunizations and vaccines; and wellness screenings. A licensed professional counselor is available for short-term counseling three half-days a week. There are three part-time physicians available three days a week during the spring and fall semesters and a decreased time frame during the summer term. There is no charge for students to see the nurse or physician. There is a minimum cost recovery fee for medications, lab tests, and some medical supplies. Health Services does not file insurance claims. The UNA meal card is accepted, along with credit or debit cards, cash or checks. You may reach Health Services at 256-7654328 or online at www2.una.edu/healthservices/index.html.

STUDENT EXPECTATIONS, GRIEVANCE AND DISCIPLINARY PROCESSES

Disciplinary Processes. The University is concerned with maintaining an environment that protects the rights of all members of the campus community while they pursue their educational objectives. Students are obligated at all times to assume responsibility for their actions; therefore, it is important that each student becomes aware of and abides by the

University Code of Conduct and applicable university regulations. Violations may result in disciplinary action. The Code of Conduct and detailed information about the disciplinary process is set forth in the Student Handbook and is available in the Office of Student Life.

Grievance Processes. Grievance procedures are available to all members of the university community for resolution of disputes that do not fall within the jurisdiction of the University Student Judicial System or Student Court. A grievance is a complaint directed against another member or organization of the university community or against the University. Information about the grievance procedures can be obtained through the Office of Student Life. Additionally, the University Ombudsman provides an avenue for grievances and complaints.

Sexual Harassment. University policy prohibits sexual harassment. It is the responsibility of all students and employees to assure that our community is free from sexual harassment. Accordingly, all members of the university community must avoid any conduct that is or has the appearance of being sexual harassment. The University Ombudsman and the Office of Student Affairs have information about the University's sexual harassment policy.

Academic Honesty. All members of the university community are expected to be honorable and observe standards of conduct appropriate to a community of scholars. Students are expected to behave in an ethical manner. Individuals who disregard the core values of truth and honesty bring disrespect to themselves and the University. A university community that allows academic dishonesty will suffer harm to the reputation of students, faculty, and graduates.

It is in the best interest of the entire university community to sanction any individual who chooses not to accept the principles of academic honesty by committing acts such as cheating, plagiarism, or misrepresentation. Offenses are reported to the Vice President for Academic Affairs and Provost for referral to the University Student Judicial System for disposition.

ACADEMIC PROCEDURES AND REQUIREMENTS

REGISTRATION

All students must be formally accepted for admission and properly registered each term with all appropriate fees paid before being admitted to classes. Included in the *Schedule of Classes* are procedures for registration, class offerings, and information concerning academic advisement.

Student Advisement. The Center for Academic Advising and Retention Services (CAARS) coordinates advising for new students at all orientations. During the initial semester of attendance, new students are assigned to a faculty advisor in the department of their major. Students that are undecided about their major are assigned to the Coordinator of Academic Advising in the College of Arts and Sciences.

Prior to registration each semester, students must meet with their advisor. Courses to be taken the next semester are discussed as well as student academic progress. Students are then able to register for classes.

Class Schedules. The student is responsible for the correctness of the schedule and for meeting the classes as scheduled. Once approved no changes may be made in the schedule except as provided for below.

Class Load. The normal or average class load for a regular semester is 16 semester hours. Students may take a maximum of 14 hours distributed over the summer (Session I, Session II and/or the regular summer term). A maximum of seven hours may be taken per four-week session (Session I or Session II). Students who earned a grade point average of 2.6 or higher in their last term of full-time study at this institution may register for a maximum of 20 semester hours in a regular semester or 14 semester hours in a full summer term. Students who have a grade point average of less than 2.6 and who are not on academic warning and academic probation may register for a maximum of 18 semester hours while students on academic warning and academic probation may not register for more than 13 semester hours during a regular semester. During a full summer term, students on academic warning and academic probation will be allowed to register for no more than six semester hours per four-week session (Session I and Session II) or 12 semester hours for the entire summer. Interim courses are to be included in these hour load calculations if they occur in any part during a regular academic year or summer term semester. Graduating seniors, with the written approval of the dean of the college in which enrolled, may take up to a maximum of 21 semester hours provided their academic record and other considerations justify the overload. In computing the class load, noncredit and audit courses count as equivalent hours.

Full-Time and Part-Time Students. To be classified as full-time, a student must schedule no fewer than 12 semester hours in a semester and

no fewer than six semester hours in a summer term. Students scheduling fewer than these minimal are classified as part-time students and are not eligible for athletics, honors, offices, or benefits requiring full-time status.

Audit. A student who wishes to enroll in a course as an auditor must obtain permission of the dean of the college in which enrolled. Students enrolling as auditors follow regular admission and registration procedures, and are governed by the same regulations applied to regular students. An auditor pays the regular course fees, but does not take examinations or receive a grade. Audit counts as equivalent credit in determining total schedule load. Courses which are audited do not count toward the minimum load required for eligibility for financial aid, athletics, and veterans' benefits. A course may be audited and then repeated for credit.

Course Changes. After initial registration any changes in the student's class schedule must first be officially approved, recorded, and the appropriate fees paid. Approval for change must be secured from the instructor and the dean of the college in which enrolled. No course changes are permitted after the close of the registration period except in the event of approved withdrawals, as provided for under "General Regulations" in this section.

Late Registration. After the initial registration, the time in which a student may enroll extends to the date designated in the University Calendar. Enrollment during this period is considered as late enrollment for which an additional charge is made. Students should also recognize that late enrollment may result in a limited selection of courses or a reduced load, and that initial absences from classes may prejudice the student's academic standing. No student may register after the close of registration.

BASIC PROGRAMS OF STUDY

All university academic programs include a component of general studies. The area, course, and sequence requirements outlined below represent the minimum core common to all general studies components, and constitute the *basic program of study* for all regularly admitted undergraduate students. *For specific program requirements, the student should refer to the particular degree and major field in "Colleges and Programs."*

GENERAL STUDIES COMPONENT

Students should refer to each major for specified course requirements for Areas I-IV

For the Bachelor of Science Degree:

Area I. Written Composition 6 semester hours

EN 111 (3) First-Year Composition I EN

112 (3) First-Year Composition II

or

EN 121 (3) First-Year Composition Honors EN

122 (3) First-Year Composition Honors II

Area II. Humanities and Fine Arts 12 semester hours

COM 201 (3) Fundamentals of Speech
 EN 231 (3) Literature of the Western World EN
 232 (3) Literature of the Western World

or

EN 233 (3) Honor Studies in Western Literature I EN
 234 (3) Honor Studies in Western Literature II

3 semester hours selected from the following:

AR 170 (3) Art Appreciation	GR 201 (3) Intermediate German
AR 180 (3) Introduction to Art History	GR 202 (3) Intermediate German
AR 281 (3) Art History Survey I	MU 222 (3) Music Appreciation I
AR 282 (3) Art History Survey II	MU 244 (3) Survey of Music Literature
FR 101 (3) Introductory French	PHL 201 (3) Introduction to Philosophy
FR 102 (3) Introductory French	RE 221 (3) Old Testament Introduction
FR 111 (1) Language Laboratory	RE 231 (3) New Testament Introduction
FR 112 (1) Language Laboratory	SP 101 (3) Introductory Spanish
FR 201 (3) Intermediate French	SP 102 (3) Introductory Spanish
FR 202 (3) Intermediate French	SP 111 (1) Language Laboratory
GR 101 (3) Introductory German	SP 112 (1) Language Laboratory
GR 102 (3) Introductory German	SP 201 (3) Intermediate Spanish
GR 111 (1) Language Laboratory	SP 202 (3) Intermediate Spanish
GR 112 (1) Language Laboratory	TH 210 (3) Introduction to Theatre

Area III. Natural Sciences and Mathematics 11 semester

hours 3 semester hours selected from the following:

MA 110(3) Finite Mathematics	MA 126 (4) Calculus II
MA 112(3) Pre-calculus Algebra	MA 227 (4) Calculus III
MA 113(3) Pre-calculus Trigonometry	MA 237 (3) Linear Algebra
MA 115(4) Pre-calculus Algebra and Trigonometry	MA 238 (3) Applied Differential Equations I
MA 125(4) Calculus I	

8 semester hours selected from the following:

BI 101 (4) Introductory Biology	ES 121 (3) Earth Science
BI 102 (4) Introductory Biology	ES 121L (1) Earth Science Laboratory
BI 111 (4) Principles of Biology	ES 131 (4) Physical Geology
BI 112 (4) Principles of Biology	ES 132 (4) Historical Geology
CH 101 (3) Introductory Chemistry	GE 111 (4) Principles of Physical Geography I
CH 101L (1) Introductory Chemistry Laboratory	GE 112 (4) Principles of Physical Geography II
CH 102 (3) Introductory Organic Chemistry	PH 101 (4) Interactive Physics
CH 102L (1) Introductory Organic Chemistry Laboratory	PH 121 (4) Introductory Physics
CH 111 (3) General Chemistry	PH 125 (4) Descriptive Astronomy
CH 111L (1) General Chemistry Laboratory	PH 241 (4) General Physics I
CH 112 (3) General Chemistry	PH 242 (4) General Physics II
CH 112L (1) General Chemistry Laboratory	PH 251 (5) Technical Physics I
	PH 252 (5) Technical Physics II

Area IV. History, Social and Behavioral Sciences 12 semester hours

HI 101 (3) Survey of World Civilization To 1500
 HI 102 (3) Survey of World Civilization Since 1500 or
 HI 201 (3) United States History To 1877
 HI 202 (3) United States History Since 1877

6 semester hours selected from the following:

EC 251 (3) Principles of Macroeconomics	GE 102 (3) World Regional Geography
EC 252 (3) Principles of Microeconomics	GE 260 (3) Human Geography
ED 299 (3) Human Growth and Development	PS 241 (3) United States Government and Politics
	PY 201 (3) General Psychology
	SO 221 (3) Introductory Sociology

Area V. For complete Area V requirements, the student should refer to the particular degree and major field.

If allowed within the major, up to four (4) semester hours of elective credit in Area V may be taken from among activity courses in health, military science, and physical education.

Additional general requirements for UNA students:

General Studies English Courses.

All students are required to schedule Freshman and Sophomore required English courses in sequence every semester until all English requirements are satisfied.

Writing Emphasis Course (taken within major field).

All students are required to pass one writing emphasis course in their major fields of study. These courses, offered at the junior and senior level, are designated in the catalog by a **W** following the course number. A student with more than one major will be required to pass a writing emphasis course in each major.

Computer Instruction.

All students are required to attain computer literacy through discipline-based instruction within their major fields or through an additional three-semester-hour computer course.

For the Bachelor of Arts Degree:

Areas I-IV are the same as for the Bachelor of Science degree.

V. Required foreign language at the intermediate level (201, 202)6
 Additional general requirements for UNA students are the same as required for the Bachelor of Science degree.

GRADUATION REQUIREMENTS

General requirements for graduation with a bachelor's degree include:

1. **Hour Requirements:** A minimum of 128 semester hours of credit. At least 50 semester hours must be junior-senior level courses (numbered 300-400). At least one-half of the minimum hour requirements for the

major and minor fields must be in junior-senior level courses (numbered 300-400), except in the mathematics minor which will include at least 12 hours of courses numbered 200 or above. At least 64 semester hours must be earned from UNA or other senior institutions. Credit earned from nontraditional sources as accepted by UNA will apply toward this 64-hour requirement.

2. **Program:** Completion of the course of study, including the general studies component, major and minor fields (where required), and individual courses, as prescribed by the college for the degree program elected.
3. **Quality:** A minimum grade point average of 2.0 (**C**) is required at this University in each major and each minor and on all work attempted. For graduation in programs in teacher education, the student also must have a minimum grade point average of 2.75 on all work attempted in the professional education sequences and in their major field(s). (*For teacher certification requirements which are in addition to graduation requirements, see "Colleges and Programs," College of Education.*) For graduation in the program in nursing, the student must present a minimum grade point average of 2.0 (**C**) on all work attempted at the University and in the professional nursing component and present a grade of **C** or above in each course in the professional nursing component. Credits accepted from other institutions by reason of transfer, transient, correspondence, or extension will be for credit hours only provided an average of **C** or better is earned on each separate enrollment. Grades earned at other institutions will not affect the student's grade point average at UNA. Students who plan to earn credit through transient, correspondence, or extension courses are required to secure prior approval. Credits to be transferred from other institutions cannot be applied toward meeting requirements for graduation unless filed with the Office of the Registrar at least four weeks prior to the date of graduation.
4. **Residence:** A candidate for graduation must have earned a minimum of 32 semester hours of upper division credit (courses at the 300-400 levels) at the University of North Alabama. Within these 32 hours, at least 12 hours must have been earned in the major field, and six hours in the minor field. A student enrolled in a program which requires no minor must have earned at least six hours in required ancillary courses along with the 12 hours in the major.
The last consecutive 16 semester hours of the 32-hour residence requirement must be completed at the University of North Alabama. An exception is allowed which will enable the student to take the final six hours or less at another institution, provided that the previous consecutive 16 hours have been earned at the University of North Alabama.
5. **General Studies Examination:** Satisfactory completion of the Collegiate Assessment of Academic Proficiency (CAAP).
6. **Procedures:** Compliance with the procedures for official check sheets/degree audits as follows:

- a. **Official Check Sheet:** On completion of 45 semester credit hours, Second Degree students and students who have degree credit hours prior to fall 1994 are required to secure an official check sheet from the Office of the Registrar. All other students may obtain an official check sheet by logging into Campus Pipeline and accessing On-Course, the on-line degree audit system. The check sheet includes the remaining course and credit requirements for graduation in the program specified by the student. The check sheet provides a useful guide to the student in preparing subsequent class schedules, but also becomes the official check list for graduation. After a check sheet has been obtained, a student desiring a change of program must secure a new check sheet as soon as possible, but not later than the period of registration for the term for which graduation is planned.
 - b. **Degree Application:** Candidates for a degree must file a formal application for graduation with the Office of the Registrar two semesters prior to graduation according to the date published in the University Calendar. Applications received after the deadline **may not** be accepted.
7. **Catalog Requirements and Time Limits:** Each *University Catalog* is in effect for seven years. Degree requirements and other university regulations are established by the catalog current at the time a student matriculates as a regular degree seeking student at a post-secondary institution. If the student does not complete requirements for graduation during the seven-year period, the catalog expires and the student must elect and satisfy requirements of a more recent catalog in effect while enrolled. Students, whose seven-year catalog entitlement expires as a result of discontinued enrollment or from having transferred to another university, are subject to the requirements of the catalog current at the time of reenrollment. All industrial hygiene majors graduating after May 2003 are required to use the 1999-2000 Bulletin, or a more recent catalog, for their graduation requirements. This change is necessary for the industrial hygiene program to become accredited by the Accreditation Board for Engineering and Technology. The College of Nursing and Allied Health retains the right to make modifications in its program/policies as deemed necessary by its faculty based on recommendations and mandates from the Alabama Board of Nursing and the National League for Nursing Accrediting Commission. Students currently enrolled in the nursing program will be required to adhere to any modifications made during their enrollment as a nursing major.
8. **ADDITIONAL MAJOR:** To meet requirements for an additional major, UNA graduates must complete any additional MAJOR courses and PRESCRIBED SUPPORTING courses not completed in first degree as well as any GENERAL STUDIES courses particular to that major. Transfer students must meet the above requirements to include residence requirements of 12 hours of 300/400 level courses in the MAJOR. (Supporting courses will not meet residence requirements.)

9. **SECOND DEGREE:** A student may earn a second bachelor's degree by completing in residence at least 32 additional semester hours of 300/400 level coursework over and above the total hours completed for the first degree. All Area V general studies requirements, major core and other requirements for the major, and minor if applicable, must be satisfied.

SCHOLASTIC STANDARDS

Academic Warning. A student with a GPA of less than 1.60 who has **attempted less than 18 semester hours** will be placed on academic warning for the following semester. If at the end of the semester of academic warning the student does not reach the minimum cumulative GPA listed below, the student will be placed on academic probation.

Academic Probation. A student will be placed on academic probation at the end of any term in which the student's cumulative GPA falls below the following:

Cumulative Hours Earned	Minimum Cumulative GPA
0 — 31	1.60
32 — 63	1.85
64 — 95	1.95
96 — or above	2.00

Probationary status may be removed by achieving the minimum cumulative GPA for the student's classification. If on the work for which enrolled in the probationary term the student achieves a grade point average of 2.0 (**C**) or better but remains below the minimum GPA required for the student's classification, probation is continued.

Academic Suspension. A student on academic probation is placed on academic suspension for one semester at the end of any semester or term in which the student fails to maintain a 2.0 (C) GPA on the work attempted during that period. After one fall or spring semester on suspension, a suspended student will be automatically eligible for reenrollment without appearing before the Readmissions Committee, but will be required to file readmission forms (available in the Office of Admission) and will remain on academic probation until that status is removed by earning at least the minimum cumulative GPA for removal of probationary status. A summer term will not fulfill a suspension period.

Academic Dismissal. Upon readmission following a period of academic suspension, a student who again fails to meet minimum probationary standards (a 2.0 GPA on the work attempted during the period) will be dismissed for one calendar year (12 months). After fulfilling the requirement of a year's dismissal period, a student may enroll without appearing before the Readmissions Committee, but will be required to file readmission forms (available in the Office of Admission) and will remain on academic probation until that status is removed by earning at least the minimum cumulative GPA for removal of probationary status.

Subsequent academic dismissal of a student will result in a student's ineligibility to enroll for a period of five calendar years. After fulfilling the requirement of a five-year academic dismissal period, the student may enroll without appearing before the Readmissions Committee, but will be required to file readmission forms (available in the Office of Admission) and will remain on academic probation until that status is removed by earning at least the minimum cumulative GPA for removal of probationary status.

Procedure for Academic Suspension, Dismissal, and Appeal.

Academic suspension and dismissal are mandatory and automatic based on the student's GPA. Notification of academic suspension or dismissal will be printed on the end of the semester grade report. Any student placed on academic suspension or dismissal status has the right to file an appeal of that status and to request the Readmissions Committee to hear the case. Appeal forms must be obtained and filed through the Office of Admission. Because the Readmissions Committee conducts readmission hearings only at the beginning of each semester or term, a written appeal for a hearing must be received by the Office of Admission no later than five days before the date of the opening of the residence halls as listed in the University Calendar for the semester or term for which readmission is sought. The Readmissions Committee, upon hearing the case, has the authority to permit readmission of an academically suspended or dismissed student before the expiration of the period of suspension or dismissal. However, the Readmissions Committee exercises that authority only when the appealing student can present substantial evidence of unusual mitigating or extenuating circumstances which led to the student's academic difficulties or when the appealing student can present substantial evidence of changed circumstances supporting the likelihood of the student's future academic success. An academically suspended or dismissed student without such evidence should not appeal his or her suspension or dismissal, since without such evidence the appeal will be denied.

Students may not, upon readmission, apply or utilize credit earned elsewhere during a period of suspension or dismissal for progress toward graduation. Additional information regarding the readmission process may be found in the admission section of the undergraduate catalog under the heading, *Former Students*.

SECOND CHANCE PROVISION

Any student who has been readmitted to the University after an absence of five or more years can earn second chance status, which provides an opportunity to eliminate from computation of the grade point average any grades of **D**, **F**, or **WF** received before readmission.

To earn second chance status, the student must achieve a grade point average of at least 2.50 for each term during the first 24 credit hours of completed coursework following readmission. If registered as a full-time student, the student must complete at least 12 credit hours each semester or at least six credit hours in a summer term; if registered as a part-time student, the student must complete at least six credit hours each semester or at least

three credit hours in a summer term.

Students meeting these standards must file a formal application in the Office of the Registrar to eliminate from computation in the grade point average any grades of **D, F, or WF** received before readmission. Education majors should contact the Dean of the College of Education concerning restrictions that apply. All credit hours associated with such grades shall be eliminated from satisfaction of degree requirements. Within one year after successful completion of the above requirements, students must exercise the option of eliminating any grades of **D, F, or WF** by filing a formal application with the Office of the Registrar. All grades shall remain on the student's transcript, however, with an explanation of this Second Chance Provision.

Students failing to meet these standards during the first 24 credit hours of completed coursework following readmission shall not be eligible for second chance status again.

Any student readmitted to the University after an absence of five years or more will be informed of the Second Chance Provision in the letter of readmission.

REPETITION OF COURSES

Students should be aware that course repeats, for any reason, may not be looked upon favorably by some employers, by professional schools, and by honor societies. This policy applies only to courses taken and repeated at the University of North Alabama. Each student should read the policy carefully and seek help from his or her departmental academic advisor, or from the appropriate dean's office and the Office of the Registrar to determine if the following policies are appropriate to his/her degree program. All hours duplicated will be deducted from the hours passed on the academic record and may result in a change in student classification. In the College of Nursing and Allied Health, no student will be permitted to repeat a nursing course more than once.

Repetition of Courses. A student may repeat any course in which a grade of C, D or F was received. For each course repeated, the highest grade will be used in determining progress, but the previous grade(s) will remain on the transcript record and all grades will be counted as work attempted in determining the grade point average (GPA). Credit in a repeated course may be used only one time toward meeting the 128 semester hour graduation requirements. *Also, all courses attempted at UNA will be counted in determining a student's eligibility for Federal Student Aid. (See Student Financial Services for more details.)*

Repeat/Recompute Policy. A student who has repeated courses in which a grade of C, D or F was received may identify three of those courses (up to 11 hours) for the purpose of recomputing the GPA. For each course identified, only the most recent grade will be used in determining progress and in recomputing the GPA; however, the previous grade will remain on the transcript. Credit in each course may be used only one time toward meeting the 128-semester hour graduation requirement. A student

will request the recomputing by completing a form which lists the courses with the Office of the Registrar at any time prior to or on the last day of drop/add of the semester of anticipated graduation. The Repeat/ Recompute Policy applies to courses repeated beginning with the summer 2002. This policy applies only to courses taken and repeated at UNA. Each student should seek help from his or her departmental academic advisor, or from the appropriate dean's office and the Office of the Registrar, to determine if this policy is appropriate to his/her degree program. In the College of Nursing and Allied Health, no student will be permitted to use the Repeat/Recompute Policy for any nursing course (NU designation). Students should be aware that utilizing the Repeat/Recompute Policy may not be looked upon favorably by some employers, by professional schools and by honor societies. *Also, all courses attempted at UNA will be counted in determining a student's eligibility for Federal Student Aid. (See Student Financial Services for more details.)*

GENERAL REGULATIONS

Class Attendance. Regular and punctual attendance at all scheduled classes and activities is expected of all students and is regarded as integral to course credit.

Each student is directly responsible to the individual professor for absences and for making up work missed. Particular policies and procedures on absences and makeup work are established for each class, are announced by the professor at the beginning of the term, and for excessive absences, may provide for appropriate penalties including reduction in grades or ultimate dismissal from class with a failing grade. Official written excuses for absences are issued only for group absences incurred in connection with required regularly scheduled university-sponsored activities such as intercollegiate athletics (see *University of North Alabama Athletic Manual* for further requirements) and special performances. For all other types of group or individual absences, including illness, authorization or excuse is the province of the individual professor.

Whenever a student's cumulative absences for any reason—excused or unexcused—exceed the equivalent of four weeks of scheduled classes and activities (one week in each four-week session or two weeks in the eight-week summer term), no credit may be earned for the course. When extended absences are caused by illness or similar extraordinary conditions, the student has recourse to the official withdrawal procedure and the **W** option provided therein; otherwise, the grade reported will be **F**.

Withdrawal from the University. Students who wish to withdraw from the University at any time *must first notify the Office of the Registrar and follow official procedures*. Failure to comply with the requirement seriously prejudices the student's academic standing as well as future readmission.

When a student withdraws from the University during the period of registration and the end of the eighth week of classes (class weeks are counted from the first day that regular classes begin as announced in the schedule of classes each semester) grades of **RW** (Registered-Withdrew)

will be reported. Beginning with the ninth week of classes and 14 calendar days prior to the beginning of final examinations grades of **W** will be reported. Students may not withdraw from the University during the period of 14 calendar days prior to the beginning of final examinations and the end of the semester.

In determining the scholastic standing of a student who has officially withdrawn from the University, a grade of **RW** or **W** are not charged as work attempted and are not awarded quality point credit. Incomplete work must be made up in the following semester or term. An **I** which has not been removed within the period prescribed automatically becomes an **F**.

Withdrawal from a Course. Students who wish to withdraw from a course during the registration period will have a grade of **RW** (Registered/Withdrawn) noted on the transcript. From the ninth week of classes until 14 calendar days prior to the beginning of final examinations (class weeks are counted from the first day that regular classes begin as announced in the schedule of classes each semester), a student may withdraw from a course with a grade of **W**. Students who wish to withdraw from a course after the registration period and before 14 calendar days prior to the beginning of final examinations must initiate the process by obtaining the signature of the instructor. Students must return the completed form to the Registrar's Office before the deadline. Students eligible to return to a nursing course after a withdrawal "W" or course failure "D/F" from a required nursing (NU) course will be readmitted on a "space available" basis.

Students may not withdraw from a class during the period of 14 calendar days prior to the beginning of final examinations and the end of the semester. During this period the student may be entitled to the grade of **I** (Incomplete) if a passing grade is being earned in the class and the student is unable to complete the semester due to extraordinary circumstances.

During other terms or non-traditional sessions, students may withdraw with a grade of **W** until five calendar days before final examinations. During other terms or non-traditional sessions, students may not withdraw from a class during the period of five calendar days prior to the beginning of final examinations and the end of the semester. During this period the student may be entitled to the grade of **I** (Incomplete) if a passing grade is being earned in the class and the student is unable to complete the semester due to extraordinary circumstances.

Every student is strongly advised not to withdraw from courses unless absolutely necessary. The appearance of a large number of withdrawals on a transcript may raise serious questions about the student's ability to fulfill commitments or obligations. Students will not be allowed to withdraw from non-credit courses unless they are completely withdrawing from school.

In determining the scholastic standing of a student who has officially withdrawn from a course, a grade of **RW** or **W** is not charged as work attempted and is not awarded quality point credit. Incomplete work must be made up in the following semester or term. It is the student's responsibility to follow-up with the appropriate instructor to complete the required work.

No student is permitted to withdraw from a course without following the above procedures, and in no case does simple absence from class constitute official withdrawal; such absence from class is regarded as a serious infraction of institutional requirements.

A proportional set of deadlines for withdrawal from courses in the summer term has been established and will be published with the appropriate class schedules.

Transfer, Transient, Correspondence, and Extension Credit. Students who wish to take coursework at another institution in temporary transient status for transfer of credits back to the University must secure advance approval from the dean of the college in which the course(s) is/are taught for both the enrollment and the specific courses to be taken. Students on academic probation, academic warning, or conditional admission cannot be approved for transient work. Students may not receive transient approval for courses failed in residence at UNA. Credits accepted from other institutions by reason of transfer, transient, correspondence, or extension will be for credit hours only provided an average of **C** or better is earned on each separate enrollment. Grades earned at other institutions will not affect the student's grade point average at UNA. Credits to be transferred from other institutions cannot be applied toward meeting requirements for graduation unless filed with the Office of the Registrar at least four weeks prior to the date of graduation. Transcripts of transient work to be applied toward meeting graduation requirements must be received by the Office of the Registrar within the next semester after credit is earned, and at least four weeks prior to the date of graduation.

Freshman Orientation Program. All beginning freshmen are required to participate in an orientation program preceding or at the beginning of the first term of residence. The program is designed to help orient the student to university life and includes scheduled sessions on registration procedures, academic programs and requirements, campus life, etc., in addition to academic advisement and registration for classes.

Mathematics Placement. See Department of Mathematics.

English Placement. See Department of English.

General Studies Examination. All students at the University of North Alabama are required to successfully complete the Collegiate Assessment of Academic Proficiency (CAAP) after completing 44 semester hours of coursework and prior to beginning the 70th hour of coursework. Additionally, by this point the student must have completed **ALL** of the following components of the General Studies Curriculum:

- English 111 and English 112
- At least one semester of the literature requirement
- Math 110 or Math 112 or higher level math course as appropriate
- At least one semester of the laboratory science requirement
- At least one semester of the history requirement

Transfer students transferring in more than 70 hours of coursework must register for the CAAP course during their first semester at UNA. The purpose of the examination is to measure what students learn during the basic program of study. Scores on the CAAP exam are compared nationally and a grade of "S" or "U" will be received for the course. A grade of "S" in the CAAP course is required for graduation. For further information, contact the Center for Academic Advising and Retention Services.

Teacher Education and Nursing. Students who enroll in teacher education or nursing programs must satisfy requirements for admission to, retention in, and graduation from such programs in addition to other university requirements. The standards and procedures are described under the College of Education and the College of Nursing and Allied Health.

CLASSIFICATION, GRADING SYSTEM, CREDITS, AND HONORS

Classification. Students are classified as freshmen, sophomores, juniors, or seniors according to credit hours, as follows:

	Credit Hours
Freshman	0-31
Sophomore	32-63
Junior	64-95
Senior	96-128

The Grading System used in the University is as follows:

- A** is the grade of highest distinction given for work of a superior quality.
- is the grade given for work considered as good or above average.
- C** is the grade given for work of fair or average quality.
- is the grade given for work considered poor or below average but passing.
- F** on a final report indicates unconditional failure. No quality or quantity credits are earned with a grade of **F**.
- NC** indicates No Credit. **NC** is the grade given for EN 111, 112, 121, 122 for any student that has earned less than a C average.
- I** is used to designate an Incomplete resulting from the failure of the student to complete final coursework because of illness or other circumstances beyond the student's control. Incomplete work must be made up in the following semester or term (fall, spring, summer). When the work is completed the appropriate grade is substituted on the permanent record. An **I** which is not removed within the period prescribed automatically becomes an **F**. It is the student's responsibility to follow-up with the appropriate instructor to complete the required work. No quality or quantity credits are earned with a grade of **I**. Once entered on the permanent records, no grades other than **I** may be changed except by reason of clerical error.

IP indicates work in progress. IP is used to designate coursework which is not scheduled to be completed within a given semester, i.e. Dauphin Island, Study Abroad credit, etc. The grade of **IP** should not be assigned in lieu of a grade of **I**. In progress work must be completed in the following semester or term (fall, spring, summer). An **IP** which is not removed within the period prescribed automatically becomes an **F** unless an extension of time has been granted by the appropriate college dean.

- indicates satisfactory work and is used only on noncredit courses.
- indicates unsatisfactory work and is used only on noncredit courses.
- indicates official withdrawal from a course and the University during the week of registration for a school term.

W indicates withdrawal from a course between the close of registration for a school term and a specific date set by the University during which time no judgment is made on the quality of a student's work in the course.

WD indicates administrative withdrawal.

WS indicates withdrawal satisfactory (complete withdrawal only). **WU**

indicates withdrawal unsatisfactory (complete withdrawal only).

The Unit of Credit is the semester hour and is based upon one hour of class and two hours of preparation per week for one semester. Two hours of laboratory work generally are considered the equivalent of one hour of regular class.

Quality Points are based on the grade received for each regular course completed. The University of North Alabama converted to the 4.0 grading system in the fall of 1989. At the end of the 1992-93 school year, the records of all students remaining on the 3.0 scale were converted to the 4.0 system. On the 4.0 system, each semester hour of credit is equal to four quality points if passed with a grade of **A**, to three quality points if passed with a grade of **B**, to two quality points if passed with a grade of **C**, and to one quality point if passed with a grade of **D**. No quality points are given for grades of **F** or for noncredit courses. The student must earn a minimum grade point average of 2.0 (**C**) on all work attempted at this University and on all work attempted in the major and minor fields (when required).

The Grade Point Average is obtained by dividing the total of quality points accumulated by a student by the total of credit hours attempted. For example, if a student has earned 96 quality points for 48 credit hours attempted, the grade point average is 2.0.

A Dean's List for each college in the University is published at the end of each semester and summer term. To be considered for the Dean's List a student must be classified as a degree-seeking student in full-time residence and have no grade of **F, I, IP** during that semester or term. No more than ten percent of students enrolled full-time in each college may be eligible for the Dean's List and no student with a grade point average of less than 3.50 on all work carried during that semester or term will be included.

Degrees with Honors are conferred in accordance with the following index numbers which represent the grade point average for all work—but not less than 44 semester hours—completed in residence at this institution:

Cum Laude	3.50-3.69
Magna Cum Laude	3.70-3.89
Summa Cum Laude	3.90-4.00

Students who have met the Second Chance Provision are not eligible to graduate with honors.

Turris Fidelis Award. The Turris Fidelis key may be awarded to not more than two graduating seniors at spring commencement. Students who have graduated since the previous spring semester as well as those planning to graduate in the spring will be considered candidates for the award. The award is made on the basis of outstanding service to the University and scholastic achievement. This honor is the highest that can be conferred upon a graduating senior, and recipients are selected by a joint committee of faculty and students.

Keller Key. The Keller Key award was established as a memorial to the late President James Albert and Mrs. Mariglen Keller. A Keller Key is presented at each commencement to the honor graduate who, on the basis of having earned all credits for the bachelor's degree at this University, has made the highest grade point average. The recipient of the Keller Key will be identified by the Registrar's Office in accordance with established guidelines. For this purpose, all academic work ever attempted at UNA will be included in the calculation of the GPA. A student may receive the award only once even though more than one degree may be earned.

COLLEGES AND PROGRAMS

COLLEGE OF ARTS AND SCIENCES

Dr. Vagn K. Hansen, Dean
129 Wesleyan Hall
765-4288

The College of Arts and Sciences contains the following departments: Art

Biology	Mathematics and Computer Science
Chemistry and Industrial Hygiene	Military Science
Communications and Theatre	Music
English	Physics and Earth Science
Foreign Languages	Psychology
Geography	Social Work and Criminal Justice
History and Political Science	Sociology

Through its departments the College of Arts and Sciences offers programs of study leading to the Bachelor of Arts and Bachelor of Science degrees, the Bachelor of Social Work degree, the Bachelor of Fine Arts degree, the Bachelor of Arts in Music degree, the Bachelor of Science in Music degree, and the Bachelor of General Studies degree; provides preprofessional preparation for a variety of special fields; provides many of the subject fields approved for the degree program in secondary education offered by the College of Education; offers the senior ROTC program; and supplies most of the coursework common to the basic undergraduate program and to the general studies components in all university bachelor's degree programs. The college also provides special coursework in philosophy and religion, and in conjunction with foreign travel.

Degree Programs

The Bachelor of Arts or Bachelor of Science degree with majors in

Art	Communication Arts, Entertainment
Biology, Environmental option	Publicity-Promotion option
Biology, General option	Communication Arts, Journalism
Biology, Marine	option
Biology, Professional option	Communication Arts, Public
Chemistry, General option	Communication option
Chemistry, Professional option	Communication Arts, Public
Chemistry, Environmental option	Relations option
Communication Arts, Broadcast	Communication Arts, Radio
Journalism option	TV-Film option
Communication Arts, Entertainment	Communication Arts,
Media Production option	Theatre option

Computer Science	Foreign Language, Professional
Criminal Justice	Spanish option
English, English option	Geography, Essential Geography
English, Language Arts option	option
English, Professional Writing option	Geography, Geographic
Foreign Language, Commercial	Information Science option
French option	Geology, General option
Foreign Language, French option	Geology, Professional option
Foreign Language, Professional	History
French option	Industrial Hygiene
Foreign Language, Commercial	Mathematics
German option	Physics, General option Physics,
Foreign Language, German option	General Science option Physics,
Foreign Language, Professional	Professional option Political
German option	Science Psychology
Foreign Language, Commercial	Sociology
Spanish option	
Foreign Language, Spanish option	

The Bachelor of Social Work degree.

The Bachelor of Fine Arts degree with a concentration in ceramics, graphic design, painting, photography, and sculpture.

The Bachelor of Arts in Music or the Bachelor of Science in Music degree with options in commercial music, sacred music, and performance.

The Bachelor of General Studies degree.

The Bachelor of Arts or Bachelor of Science degree based on completion of prescribed three-year curricula at this University and completion of the first year of the professional college of dentistry, medicine, or law.

Degree Requirements

In degree programs offered by the College of Arts and Sciences, the student may elect either the Bachelor of Arts degree program or the Bachelor of Science degree program with any major field listed for these degrees on fulfillment of the minimum requirements prescribed for each below. For the University's basic program of study, course sequences, general requirements and procedures for graduation, reference should be made to *Academic Procedures and Requirements*. Reference also should be made to the major field program selected for specific hour and course requirements. Courses taken to satisfy requirements in the general studies components are applicable for satisfying major and minor field requirements for the same courses, and the total credit hour requirements for the major and minor fields may be reduced thereby. Specific courses required for the fulfillment of major and/or minor field requirements may be applied to the fulfillment of requirements for both or for another major or minor; however, these courses count only once toward the 128 semester hours required for graduation.

**Courses Meeting Area V Requirements
in the College of Arts and Sciences**

Where Arts and Sciences department curricula describing General Studies Area V requirements refer to additional courses from approved Area V elective courses, the student may select from among any of the following courses not already taken elsewhere.

Course #	Course Title	Hrs
AR 170	Art Appreciation	3
AR 180	Introduction to Art History	3
AR 281	Art History, Survey I	3
AR 282	Art History, Survey II	3
BI 101	Introductory Biology I	4
BI 102	Introductory Biology II	4
BI 111	Principles of Biology I	4
BI 112	Principles of Biology II	4
CH 101 & 101L	Introductory Chemistry I and Lab	4
CH 102 & 102L	Introductory Chemistry II and Lab	4
CH 111 & 111L	General Chemistry I and Lab	4
CH 112 & 112L	General Chemistry II and Lab	4
COM 201	Fundamentals of Speech	3
EC 251	Principles of Macroeconomics	3
EC 252	Principles of Microeconomics	3
ED 299	Human Growth and Development	3
EN 111	First-Year Composition	3
EN 112	First-Year Composition II	3
EN 121	First-Year Composition-Honors	3
EN 122	First-Year Composition-Honors II	3
EN 231	Literature of the Western World I	3
EN 232	Literature of the Western World II	3
EN 233	Honors Studies in Western Literature I	3
EN 234	Honors Studies in Western Literature II	3
ES 121 & 121L	Earth Science and Lab	4
ES 125	Astronomy	4
ES 131	Physical Geology	4
ES 132	Historical Geology	4
FR 101	Introductory French	3
FR 102	Introductory French	3
FR 111	Language Laboratory	1
FR 112	Language Laboratory	1
FR 201	Intermediate French	3
FR 202	Intermediate French	3
GE 102	World Regional Geography	3
GE 111	Principles of Physical Geography I	4
GE 112	Principles of Physical Geography II	4
GE 260	Human Geography	3
GR 101	Introductory German	3

<u>Course #</u>	<u>Course Title</u>	<u>Hrs</u>
GR 102	Introductory German 3	GR 111
GR 102	Language Laboratory 1	GR 112
GR 201	Intermediate German 3	GR 202
GR 201	Intermediate German 3	GR 202
HI 101	Survey of World Civilization to 1500 3	HI 102
HI 101	Survey of World Civilization Since 1500 3	HI 201
HI 201	United States History to 1877 3	HI 202
HI 201	United States History Since 1877 3	MA 110
MA 110	Finite Mathematics 3	MA 112
MA 112	Pre-Calculus Algebra 3	MA 113
MA 113	Pre-Calculus Trigonometry 3	MA 115
MA 115	Pre-Calculus Algebra and Trigonometry 4	MA 125
MA 125	Calculus I 4	MA 126
MA 126	Calculus II 4	MA 227
MA 227	Calculus III 4	MA 237
MA 237	Linear Algebra 3	MA 238
MA 238	Applied Differential Equations I 3	MU 222
MU 222	Music Appreciation I 3	MU 244
MU 244	Survey of Music Literature 3	PH 101
PH 101	Interactive Physics 4	PH 121
PH 121	Introductory Physics 4	PH 241
PH 241	General Physics I 4	PH 242
PH 242	General Physics II 4	PH 251
PH 251	Technical Physics I 5	PH 252
PH 252	Technical Physics II 5	PHL 201
PHL 201	Introduction to Philosophy 3	PHL 205
PHL 205	Ethics 3	PS 241
PS 241	United States Government and Politics 3	PY 201
PY 201	General Psychology 3	RE 221
RE 221	Old Testament Introduction 3	RE 231
RE 231	New Testament Introduction 3	SO 221
SO 221	Introductory Sociology 3	SP 101
SP 101	Introductory Spanish 3	SP 102
SP 102	Introductory Spanish 3	SP 111
SP 111	Language Laboratory 1	SP 112
SP 112	Language Laboratory 1	SP 201
SP 201	Intermediate Spanish 3	TH 210
TH 210	Introduction to Theatre 3	
Up to 4 semester hours of credit from any combination of the following:		
HED ***	Any 100 or 200 level class 1-3	MS 111
MS 111	Basic Military Science I 1	MS 112
MS 112	Basic Military Science I 1	MS 211
MS 211	Basic Military Science II 1	MS 212
MS 212	Basic Military Science II 1	PE ***
PE ***	Any 100 or 200 level class	1

Bachelor of General Studies Degree

The Bachelor of General Studies degree is provided by the College of Arts and Sciences as a service to nontraditional (beyond normal college age of 18-24 and to graduates of community college technical programs) students who may prefer an alternative to the traditional degree program. It is a nontraditional degree for the nontraditional student. The purpose of the Bachelor of General Studies program is to provide a meaningful academic alternative for the atypical student whose special circumstances are not met by the traditional degree program. This category of students, termed the "new emerging majority" in higher education, includes those already involved with jobs, women who choose both family and education, individuals needing additional training for new careers, people who choose not to go directly to college but now want further education, and those who find the traditional degree programs unsuited to their particular needs. The general studies program provides the flexibility needed to enable the student, with careful advisement, to develop an individualized program of study that is meaningful and appropriate to the nontraditional student. The program is structured in such a way as to ensure that each student receives a strong general education foundation, which is traditionally believed to be the purpose of a baccalaureate degree. The degree offers two options. Option 1 is a broad liberal studies major and Option 2 is an applied studies major.

Program Entrance Requirements

Option 1 requires a minimum of seven years since high school graduation or its equivalent must have elapsed before the nontraditional student is eligible to apply to the University General Studies Degree Committee for acceptance in this program. Students who apply must have completed a minimum of 20 semester hours of coursework as a special student at the University of North Alabama and must have at least a 2.0 grade point average on all coursework.

Option 2 is open to graduates of community college two-year vocational-technical programs. Students may enter this program after receiving their associate degree from a regionally accredited community-technical college.

Student Program Supervision

For each student accepted in the program, an advisor will be assigned by the chairperson of the University Committee on General Studies. The individual student's advisor will have the responsibility of assisting the student in planning the total degree program, and the chairperson will be required to approve the schedule of classes taken each semester by the student.

Degree Requirements for Option 1

1. A total of 128 semester hours is required as a minimum for graduation with 36 semester hours of this total coming from courses numbered 300 or 400.

2. General Studies Requirements (41-47 semester hours)
 - a. Same General Studies Component required of all students if approved by the student's advisory committee.
 - b. May follow either requirements for Bachelor of Arts or Bachelor of Science degree.
3. Eighteen semester hours must be earned from each of three of the following four groups. An additional 12 semester hours must be taken in one of the three groups (except Group IV) selected to complete the area concentration. In the area concentration, 15 semester hours must be taken in courses numbered 300 or 400. (Courses taken to satisfy the general studies requirement cannot be counted twice.) **Areas of Concentration:**

Group I—Liberal Arts: Art, Communication Arts, English, French, German, Music, Philosophy, Religion, Spanish. **Group II—Social and Behavioral Sciences:** Criminal Justice, Geography, History, Political Science, Psychology, Sociology. **Group III—Natural Sciences and Mathematics:** Biology, Chemistry, Computer Science, Earth Science, Industrial Hygiene, Mathematics, Physics.

Group IV—Business, Administrative, and Community Services: Accounting, Computer Information Systems, Economics, Education, Finance, Health-Physical Education-Recreation, Human Environmental Sciences, Management, Marketing, Military Science, Nursing, Social Work.
4. The remainder of the 128 hours may be elected by the student.
5. Students must meet prerequisites before taking any given course.
6. An average of **C (2.0)** is required for all hours attempted toward the degree, hours counted in the area concentration, and all hours taken at the 300-400 level.
7. No more than 30 semester hours of courses offered by the College of Business can be counted toward graduation in this degree.
8. All other university policies (i.e., residence requirements) relating to requirements that must be met for all degree programs apply to the degree in general studies.

Degree Requirements for Option 2

1. A total of 128 semester hours is required as a minimum for graduation with 36 semester hours of this total coming from courses numbered 300 or 400.
2. General Studies Requirements: 41 semester hours as required of all students at the University.
3. Vocational-Technical Studies: The student may transfer a maximum of 30 semester hours of vocational-technical courses from a two-year associate degree as 'block credit'. The 30 hours of credit is not used in determining grade point average. Further, this block credit **is not** transferable into any other degree program offered by the University.

4. Applied Entrepreneurial Studies: (30 semester hours)
Students must complete 30 semester hours of business and entrepreneurial courses. At least 24 semester hours of this work must be completed at the University of North Alabama.
Required courses:
 - a. AC 291 – Principles of Accounting I
 - b. AC 292 – Principles of Accounting II c.
 - BL 240 – Business Law
 - d. CIS 125 – Microcomputer Applications in Business e. FI
 - 385 – Entrepreneurial Finance f. MK 360 – Principles of MarketingElectives (students must complete 12 semester hours selected from the following courses:
 - a. MG 330 – Principles of Management
 - b. MG 331 – Organizational Behavior and Design
 - c. MG 332 – Supervision
 - d. MG 391 – Introduction to Entrepreneurship
 - e. MG 493 – International Entrepreneurship
 - f. MG 494 – Small Business Management
 - g. MK 395 – Entrepreneurial Marketing
 - h. MK 461 – Sales and Sales Management
 - i. MK 492 – Retailing
5. Arts and Sciences Minor: Students must complete a minor of between 18 and 21 semester hours in the College of Arts and Sciences. Specific requirements for various minors are identified in the university catalog.
6. Electives: Students must choose electives sufficient to complete 128 semester hours for graduation. This will typically entail an additional 918 semester hours. These electives must normally be chosen from the College of Arts and Sciences with approval of the student's advisor.
7. No more than 64 of the 128 hours required for graduation may be transferred from a community college (including the 30 hours block of technical course credit).

Minor Fields

The College of Arts and Sciences offers minor field concentrations in

Art	Geography	Political Science
Art History	Geology	Professional Writing
Biology	History	Psychology
Broadcast Journalism	International Studies	Public Communication
Chemistry	Journalism	Public Relations
Computer Science	Mathematics	Radio-Television-Film
Criminal Justice	Military Science	Religion and Philosophy
Earth Science	Music	Sociology
English	Photography	Theatre
Foreign Languages	Physics	Women's Studies

Secondary Certification

Although the regular programs for the preparation of secondary teachers for the public schools are offered in the College of Education, students taking degree programs in the College of Arts and Sciences may also qualify for the Alabama Class B Professional Certificate by taking subject fields approved for secondary certification and (1) by satisfying the requirements for admission to and retention in programs of teacher education as prescribed by the College of Education, (2) by completing the additional prescribed coursework in both general studies and professional education as prescribed by the College of Education, and (3) by satisfying the State Board of Education grade point average and test score requirements (see School of Education).

Preprofessional Programs

The College of Arts and Sciences provides undergraduate work of from one to four years required for admission to professional schools in the areas listed below. For preprofessional programs in the health and allied health professions, a Health Professions Advisory Committee provides special advisory and informational services to interested students.

Agriculture and Forestry	Pharmacy
Architecture	Veterinary Medicine
Engineering	Medical Technology
Medicine, Dentistry	Other Allied Health Professions
Optometry, and Podiatry	Law and Others

For descriptions and recommended schedules on these programs see Preprofessional Programs.

DEPARTMENT OF ART

Chair: Mr. Ronald L. Shady, 219 Art Building, 765-4384

Faculty: Ms. Chen, Dr. Duvall-Zurinsky, Mr. Hensley, Mr. McDaniel, Mr. Sides, Mr. Turner

The University of North Alabama is a professionally accredited institutional member of the National Association of Schools of Art and Design (NASAD).

The Department of Art offers a major program leading to a Bachelor of Fine Arts and to the Bachelor of Arts or Bachelor of Science degrees; minor programs in art, art history, and photography; and coursework applicable to partial satisfaction of general studies components in all programs. The department also offers fields for subject programs for the preparation of teachers of art offered through the College of Education.

Exhibitions of the work of state, regional, and national artists are shown in the University Art Gallery each year for members of the university community and the general public. Also, during their senior year, B.F.A. majors present an exhibition of their work in the student gallery. Meritorious student work may be retained for instructional purposes, but will be released within a period of two years, after which the University assumes no liability. The department is an institutional member of the College Art Association of America and the Southeastern College Art Conference.

The major in fine arts is divided into five areas of concentration: ceramics, graphic design, painting, photography, and sculpture and is designed for students with a professional interest in art. A student seeking admission to the Bachelor of Fine Arts program must submit a portfolio to the faculty after completion of 45 hours of courses. Review of this portfolio will determine whether the student will be admitted to candidacy for the degree program. The student must be admitted to the B.F.A. program before completing 96 hours of university coursework. In conjunction with the Senior Exhibition (AR 493), the candidate for the B.F.A. is required to present 15 to 20 slides of work completed while enrolled in the department and a current resume. The slides and resume are retained by the Department of Art.

The major in art is designed for students with a personal or academic interest in art. The student may choose to specialize in ceramics, drawing, graphic design, painting, photography, printmaking, or sculpture by taking upper level coursework to complete requirements for the degree program. No minor field is required in fine arts or in art. The concentration in graphic design is particularly designed to permit students to specialize in coursework with direct application to positions with agencies, businesses, and studios employing art skills in advertising and design. Students in major programs leading to the Bachelor of Fine Arts, the Bachelor of Arts or Bachelor of Science in Art, or art as a second major for education certification are required to submit an exit portfolio for graduation.

Art Appreciation (AR 170) is designed for the general student and is not applicable for credit toward the minimum requirements for the major or minor. The art history minor is available to majors through the University whose interest in art is academically oriented.

REQUIREMENTS FOR A BACHELOR OF ARTS, BACHELOR OF SCIENCE OR BACHELOR OF FINE ARTS DEGREE WITH A MAJOR IN ART

Course	Credit
A. General Studies Component	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Art majors must complete:	
Area IV: Geography 102	(3)
History 101 and 102	(6)
Psychology 201	(3)

Course	Credit
Area V: Additional Requirements	
.....	23 Art 221 Drawing .

Students may take up to 5 hours in any course listed for Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.

For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.

B. Major Core Requirements:	
*Introduction to Art History (180)	3
Photographyl(200)	3
DrawingI(221).....	3
DrawingII(222)	3
DesignI(231)	3
DesignII(232)	3
*Art History Survey I (281)	3
*Art History Survey II (282)	3
Printmaking I (311)	3
Advanced Design(323).....	3
PaintingI(342).....	3
**Computer Graphics in Art I (347)	3
CeramicsI(351)	3
SculptureI(391)	3
***Senior Exhibition (493) or	
****Studio Elective (300-400 level)	3
Six hours from the following advanced art history courses: Modern Art (480W)	
Modern Architecture (481 W)	
Italian Renaissance Art (482W)	
American Art (483W)	
History of Photography (484)	
Theory and Criticism (485W)	
Women, Art, and Society (486W)	6
	51

*These courses are required in these majors if not completed as a part of the General Studies Component.

*" Fulfills computer literacy requirement.

*" Bachelor of Fine Arts only.

*" B.A./B.S. requires 3 hours and B.F.A. requires 9 hours. B.F.A. requires a total of 15 hours of studio electives.

Course	Credit
C. Bachelor of Fine Arts:	
Concentration from one of the following studio areas:	
Ceramics:	
Ceramics II (352)	3
Advanced Ceramics (451)	<u>18</u>
Total	21
Graphic Design:	
Illustration (346)	3
Layout and Typography (445)	3
Graphic Design (446)	6/9
Computer Graphics in Art II (447)	3/6
Packaging and Display (448)	<u>3</u> –
Total	21
Painting:	
Painting II (343).....	3
Advanced Painting (442)	<u>18</u>
Total	21
Photography:	
Photography II (300)	3
Studio Photography (302).....	3
Advanced Photography (401)	12
Alternative Processes in Photography (405)	<u>3</u> –
Total	21
Sculpture:	
Sculpture II (392)	3

Advanced Sculpture (491)	<u>18</u>
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Total	21
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Studio Electives (including nine hours of 300-400 level)	<u>15</u>
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Total for the concentration selected	36
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D. Minor:

A minor is not required for these majors.

E. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A MINOR IN ART

Course	Credit
Drawing I (221)	3
Design I (231)	3
Studio Electives (including nine hours of 300-400 level)	<u>12</u>
Total	18

REQUIREMENTS FOR A MINOR IN ART HISTORY

Course	Credit
Introduction to Art History (180)	3
Art History Survey I (281)	3
Art History Survey II (282)	3
American Art (483)	3
Art History Electives from 480, 481, 482, 484, 485, 486	6 —
Total	18

REQUIREMENTS FOR A MINOR IN PHOTOGRAPHY

Course	Credit
Photography I (200)	3
Design I (231)	3
Photography II (300)	3
Advanced Photography (401)	3
Photo Journalism (404)	3
History of Photography (484)	3 —
Total	18

DEPARTMENT OF BIOLOGY

Chair: Dr. Paul D. Kittle, 428 Floyd Hall, 765-4394

Faculty: Mrs. Allan, Ms. Bruce, Dr. Crews-Oyen, Dr. Daly, Dr. Davison, Dr. Haggerty, Dr. Menapace, Dr. Richardson, Dr. Roush

The Department of Biology offers major programs in biology and marine biology leading to the Bachelor of Arts or Bachelor of Science degree; a minor in biology; courses and programs applicable to preprofessional curricula in the medical and related health fields; basic coursework applicable to the general studies components for all degree programs; and the subject field for secondary teachers of biology offered through the College of Education. The department has a prominent role in the program of the Marine Environmental Sciences Consortium.

The professional biology option is designed especially for students who wish to prepare for positions in biology through graduate study or through research and technical areas at the baccalaureate level. This major pre-

scribes a minor in chemistry and ancillary coursework in computer science, mathematics, and physics.

The general biology option is designed for students who wish to prepare for fields requiring a general background in biology or to follow preprofessional curricula for which general preparation in biology is required or recommended. This major requires ancillary coursework in chemistry, computer science, and mathematics. A minor in chemistry is recommended.

The marine biology major is designed for students who wish to prepare for positions in the area of marine or aquatic biology or who plan graduate study in these fields. The standard courses for the major are offered on the university campus, with the specialized courses being taken through the Marine Environmental Sciences Consortium (MESC) Sea Laboratory at Dauphin Island near Mobile, Alabama. Students interested in this major should consult early with the chair of the department concerning courses, prerequisites, special arrangements, and costs. Requirements include a prescribed minor in chemistry and ancillary coursework in computer science, mathematics, and physics.

The environmental biology option is designed for students who wish to prepare for positions requiring a general background in biology, with ancillary work in computer science, chemistry, physics and earth science, and mathematics; a student must also choose a block of courses from either geography or industrial hygiene. This program should prepare the student for positions in natural resource utilization, environmental research, and environmental education; or for graduate work in environmental biology. No minor field is required in this major; however, a minor field may be added by taking more than the minimum hours required for the degree. Students should obtain departmental advisement early in the program.

In all major programs in biology the electives are determined through advisement, and students are encouraged to take additional hours beyond the minimum major requirements in the field.

Students with majors in biology, marine biology, or biology as a teaching field for education certification are required to take exit examinations for graduation. All courses may require field trips.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN BIOLOGY

Course	Credit
A. General Studies Component	41
.....	
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Biology majors must complete:	
Area III: Biology 111 and 112 (8)	
Mathematics 112 or 115 or 125 (3-4)	
Area V: Additional Requirements	23
Chemistry 111, 111L and 112, 112L (8)	
15 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours	

Course	Credit
<i>For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.</i>	
B. Major Core Requirements:	
*Principles of Biology (111)	4
*Principles of Biology (112)	4
Biological Literature (300W)	1
Cell BiologyY (305)	4
Genetics(306)	4
MicrobiologyY (307)	4
	<u>13-21</u>
C. Option I: Professional Biology	
Organismal Biology (Protistans, Fungi, Plants):	
One course from Biology 362, 363, 429, 460, 463	3-4
Organismal Biology (Protistans, Animals):	
Two courses from Biology 310, 311, 340, 341, 403, 408,	
415, 433, 451, 452, 471, 472	6-8
Population Biology:	
Evolution(312)	3
One course from Biology 411, 412, 413, 421, 423	4
	<u>29-40</u>
Prescribed Supporting Courses:	
Introduction to Computers (CS 110) or higher level	
computer science course	3
*Mathematics 112 or 115 or 125 3-4 Calculus for Business and Life Sciences I and II (MA 12	
or *Calculus I (MA 125)	6-4
Applied Statistics I (MA 345)	3
*General Physics (PH 241, 242) or	
Technical Physics (PH 251, 252)	8-10
	<u>6-26</u>
Option II: General Biology	
Organismal Biology (Protistans, Fungi, Plants):	
One course from Biology 362, 363, 429, 460, 463	3-4
Organismal Biology (Protistans, Animals):	
Two courses from Biology 310, 311, 340, 341, 403, 408,	
415, 433, 451, 452, 471, 472	6-8
Population Biology:	
Evolution(312)	3
One course from Biology 411, 412, 413, 421, 423	4
	<u>29-40</u>

*These courses are required in the major or minor if not completed as a part of the General Studies Component.

Course	Credit
Prescribed Supporting Courses:	
*General Chemistry (CH 111, 111L, 112, 112L)	8
Introduction to Computers (CS 110) or higher level	
computer science course	3
*Mathematics 112 or 115 or 125	<u>3-4</u> —
	3-15

Option III: Environmental Biology

Organismal Biology (Protistans, Fungi, Plants):

Plant Taxonomy (463) 3

Organismal Biology (Protistans, Animals):

Animal Physiology (311) 4

Natural History of the Vertebrates (341) 4

Population Biology:

Ecology (421) 4

Aquatic Ecology (423) 4 —

28-40

Prescribed Supporting Courses:

*General Chemistry (CH 111, 111L, 112, 112L) 8

Organic Chemistry (CH 311, 311L) 5

Quantitative or Instrumental Analysis

(CH 321, 321LW or 322, 322LW) 4-5

Environmental Regulations (CH 465) 3 Introduction to Computers (CS 110) or higher level

 computer science course 3

Physical Geology (ES 131) 4

Hydrogeology (ES 488) 3

*Mathematics (MA 112 or 115 or 125) 3-4

*These courses are required in the major or minor if not completed as a part of the General Studies Component.

Organic Chemistry (CH 311, 311L, 312, 312L) 10 Elective from among Chemistry 321, 321L, 322, 322L, 323, 323L, 324, 324L, 325, 325L, 326, 326L, 327, 327L, 328, 328L, 329, 329L, 330, 330L, 331, 331L, 332, 332L, 333, 333L, 334, 334L, 335, 335L, 336, 336L, 337, 337L, 338, 338L, 339, 339L, 340, 340L, 341, 341L, 342, 342L, 343, 343L, 344, 344L, 345, 345L, 346, 346L, 347, 347L, 348, 348L, 349, 349L, 350, 350L, 351, 351L, 352, 352L, 353, 353L, 354, 354L, 355, 355L, 356, 356L, 357, 357L, 358, 358L, 359, 359L, 360, 360L, 361, 361L, 362, 362L, 363, 363L, 364, 364L, 365, 365L, 366, 366L, 367, 367L, 368, 368L, 369, 369L, 370, 370L, 371, 371L, 372, 372L, 373, 373L, 374, 374L, 375, 375L, 376, 376L, 377, 377L, 378, 378L, 379, 379L, 380, 380L, 381, 381L, 382, 382L, 383, 383L, 384, 384L, 385, 385L, 386, 386L, 387, 387L, 388, 388L, 389, 389L, 390, 390L, 391, 391L, 392, 392L, 393, 393L, 394, 394L, 395, 395L, 396, 396L, 397, 397L, 398, 398L, 399, 399L, 400, 400L, 401, 401L, 402, 402L, 403, 403L, 404, 404L, 405, 405L, 406, 406L, 407, 407L, 408, 408L, 409, 409L, 410, 410L, 411, 411L, 412, 412L, 413, 413L, 414, 414L, 415, 415L, 416, 416L, 417, 417L, 418, 418L, 419, 419L, 420, 420L, 421, 421L, 422, 422L, 423, 423L, 424, 424L, 425, 425L, 426, 426L, 427, 427L, 428, 428L, 429, 429L, 430, 430L, 431, 431L, 432, 432L, 433, 433L, 434, 434L, 435, 435L, 436, 436L, 437, 437L, 438, 438L, 439, 439L, 440, 440L, 441, 441L, 442, 442L, 443, 443L, 444, 444L, 445, 445L, 446, 446L, 447, 447L, 448, 448L, 449, 449L, 450, 450L, 451, 451L, 452, 452L, 453, 453L, 454, 454L, 455, 455L, 456, 456L, 457, 457L, 458, 458L, 459, 459L, 460, 460L, 461, 461L, 462, 462L, 463, 463L, 464, 464L, 465, 465L, 466, 466L, 467, 467L, 468, 468L, 469, 469L, 470, 470L, 471, 471L, 472, 472L, 473, 473L, 474, 474L, 475, 475L, 476, 476L, 477, 477L, 478, 478L, 479, 479L, 480, 480L, 481, 481L, 482, 482L, 483, 483L, 484, 484L, 485, 485L, 486, 486L, 487, 487L, 488, 488L, 489, 489L, 490, 490L, 491, 491L, 492, 492L, 493, 493L, 494, 494L, 495, 495L, 496, 496L, 497, 497L, 498, 498L, 499, 499L, 500, 500L, 501, 501L, 502, 502L, 503, 503L, 504, 504L, 505, 505L, 506, 506L, 507, 507L, 508, 508L, 509, 509L, 510, 510L, 511, 511L, 512, 512L, 513, 513L, 514, 514L, 515, 515L, 516, 516L, 517, 517L, 518, 518L, 519, 519L, 520, 520L, 521, 521L, 522, 522L, 523, 523L, 524, 524L, 525, 525L, 526, 526L, 527, 527L, 528, 528L, 529, 529L, 530, 530L, 531, 531L, 532, 532L, 533, 533L, 534, 534L, 535, 535L, 536, 536L, 537, 537L, 538, 538L, 539, 539L, 540, 540L, 541, 541L, 542, 542L, 543, 543L, 544, 544L, 545, 545L, 546, 546L, 547, 547L, 548, 548L, 549, 549L, 550, 550L, 551, 551L, 552, 552L, 553, 553L, 554, 554L, 555, 555L, 556, 556L, 557, 557L, 558, 558L, 559, 559L, 560, 560L, 561, 561L, 562, 562L, 563, 563L, 564, 564L, 565, 565L, 566, 566L, 567, 567L, 568, 568L, 569, 569L, 570, 570L, 571, 571L, 572, 572L, 573, 573L, 574, 574L, 575, 575L, 576, 576L, 577, 577L, 578, 578L, 579, 579L, 580, 580L, 581, 581L, 582, 582L, 583, 583L, 584, 584L, 585, 585L, 586, 586L, 587, 587L, 588, 588L, 589, 589L, 590, 590L, 591, 591L, 592, 592L, 593, 593L, 594, 594L, 595, 595L, 596, 596L, 597, 597L, 598, 598L, 599, 599L, 600, 600L, 601, 601L, 602, 602L, 603, 603L, 604, 604L, 605, 605L, 606, 606L, 607, 607L, 608, 608L, 609, 609L, 610, 610L, 611, 611L, 612, 612L, 613, 613L, 614, 614L, 615, 615L, 616, 616L, 617, 617L, 618, 618L, 619, 619L, 620, 620L, 621, 621L, 622, 622L, 623, 623L, 624, 624L, 625, 625L, 626, 626L, 627, 627L, 628, 628L, 629, 629L, 630, 630L, 631, 631L, 632, 632L, 633, 633L, 634, 634L, 635, 635L, 636, 636L, 637, 637L, 638, 638L, 639, 639L, 640, 640L, 641, 641L, 642, 642L, 643, 643L, 644, 644L, 645, 645L, 646, 646L, 647, 647L, 648, 648L, 649, 649L, 650, 650L, 651, 651L, 652, 652L, 653, 653L, 654, 654L, 655, 655L, 656, 656L, 657, 657L, 658, 658L, 659, 659L, 660, 660L, 661, 661L, 662, 662L, 663, 663L, 664, 664L, 665, 665L, 666, 666L, 667, 667L, 668, 668L, 669, 669L, 670, 670L, 671, 671L, 672, 672L, 673, 673L, 674, 674L, 675, 675L, 676, 676L, 677, 677L, 678, 678L, 679, 679L, 680, 680L, 681, 681L, 682, 682L, 683, 683L, 684, 684L, 685, 685L, 686, 686L, 687, 687L, 688, 688L, 689, 689L,

Course	Credit
<i>A minor or second major in some field is required for Option II.</i>	
<i>A minor or second major in chemistry, earth science, geography, geology, mathematics/computer science, physics, or psychology is recommended</i>	
18-26	<i>A minor is not required for Option III.</i>

E. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN MARINE BIOLOGY

Course	Credit
A. General Studies Component	41
<i>For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements.</i>	
Area III: Biology 111 and 112	(8)
Mathematics 112 or 115 or 125	(3-4)
Area V: Additional Requirements
Chemistry 111, 111 L and 112, 112L	(8)
<i>Marine biology majors must complete:</i>	

... 23

Calculus for Business and Life Sciences I and II (MA 121, 122) or Calculus I (MA 125)	(6-4)
General Physics (PH 241, 242) or Technical Physics (PH 251, 252)	(8-10)

1-3 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.

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For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.

B. Major Core Requirements:	
*Principles of Biology (111)	4
*Principles of Biology (112)	4
Biological Literature (300W)	1
Cell Biology (305)	4
Genetics (306)	4

**These courses are required in the major or minor if not completed as a part of the General Studies Component.*

<i>MicrobiologY</i> (307)	4
<i>Evolution</i> (312)	3
<i>Marine Invertebrate Zoology</i> (403)	4

Course	Credit
Marine Vertebrate Zoology (408)	4
Marine Botany (429)	4
Population Biology:	
One course from Biology 411, 412, or 413	4 32-40
Prescribed Supporting Courses:	
Introduction to Computers (CS 110) or higher level computer science course	3
*Mathematics 112 or 115 or 125 3-4 Calculus for Business and Life Sciences I and II (MA 121, or Calculus I (MA 125).....	6-4
Applied Statistics I (MA 345)	3
*General Physics (PH 241, 242) or Technical Physics (PH 251, 252)	8-10
	10-26
C. Minor:	
*General Chemistry (CH 111, 111 L, 112, 112L)	8
Organic Chemistry (CH 311, 311 L, 312, 312L)	10
Elective from among Chemistry 321, 321 LW, 322, 322LW, 341,341L	4-5
	14-23

D. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FORA MINOR IN BIOLOGY

Course	Credit
Principles of Biology (111)	4
Principles of Biology (112)	4
Biological Literature (300W)	1
Molecular and Cellular Biology:	
Cell Biology (305) or Genetics (306)	4
Organismal Biology (Monerans, Protistans, Fungi, Plant. One course from Biology 307, 362, 363, 407, 429, 460, 463.....	3-4
Organismal Biology (Protistans, Animals):	
One course from Biology 310, 311, 340, 341, 403, 408, 415, 433, 451, 452, 471, 472	3-4
Population Biology:	
One course from Biology 312, 411, 412, 421, 423	3-4
Total	22-25

*These courses are required in the major or minor if not completed as a part of the General Studies Component.

DEPARTMENT OF CHEMISTRY AND INDUSTRIAL HYGIENE

Chair: Dr. Michael B. Moeller, 211 Floyd Hall, 765-4622

Faculty: Dr. Figueroa, Dr. Gaunder, Dr. Murray, Dr. Olive, Dr. Weisenseel

The Department of Chemistry and Industrial Hygiene offers major programs in chemistry and in industrial hygiene leading to the Bachelor of Arts or Bachelor of Science degree, a minor program in chemistry, supporting coursework for other major programs and preprofessional curricula, coursework applicable to physical science requirements in the general studies components, and the special cooperative program described below. The department also provides the subject field for the preparation of secondary teachers of chemistry offered through the College of Education. Students with majors in chemistry, industrial hygiene, or chemistry as a teaching field for education certification are required to take an exit examination for graduation.

The professional chemistry option was approved by the American Chemical Society in 1973 and is designed especially for students who wish to prepare for industrial chemistry or for graduate study in chemistry. Requirements for the professional chemistry option include prescribed ancillary courses in computer science, mathematics and physics.

The general chemistry option is designed for students who wish to take a general major in chemistry or to satisfy preprofessional requirements for medicine, dentistry, medical technology, and similar programs. Requirements for the general chemistry option include prescribed ancillary coursework in computer science, mathematics, and physics.

The environmental chemistry option is designed to prepare students for direct entry into environmental laboratories in the private sector or government and for entry into graduate programs in environmental science. Requirements for the environmental chemistry option include prescribed ancillary courses in computer science, mathematics and physics.

The major in industrial hygiene is designed to prepare students for direct entry into positions in industry, government, and other organizations as industrial hygienists and for entry into graduate programs in industrial hygiene. Major field preparation is directed to the recognition, evaluation, and control of health hazards in the workplace from biological, chemical, and physical sources and combines primary study in chemistry and in industrial hygiene with supporting coursework from biology, mathematics, and physics.

The basic sequences in chemistry are Introductory Chemistry 101-101L and 102-102L or General Chemistry 111-111L and 112-112L as determined by the particular program to be followed. Students who do not have a high school preparation in chemistry must take Introductory Chemistry 101-101L as the first courses, to be followed either by Introductory Chemistry 102-102L for students whose programs require these courses or only a

year of physical science, or by General Chemistry 111-111L for students whose programs call for General Chemistry 112-112L. For programs requiring General Chemistry 112-112L, students with one or more units of high school chemistry enter General Chemistry 111-111L as the first courses. Credit in Introductory Chemistry 101-101L and 102-102L may not be applied to the minimum hour requirements for major or minor programs in chemistry. Special provision is made for advanced placement in chemistry through CEEB Advanced Placement Examinations or through CLEP testing. (See Advanced Placement Examinations and CLEP)

The Cooperative Program in Chemistry. In conjunction with several area industries and governmental laboratories, the University provides a cooperative program in chemistry and industrial hygiene. The program involves teams of two students each in alternate terms of coursework at the University and paid employment with the company. The program leads to the bachelor's degree in professional chemistry, environmental chemistry, or industrial hygiene over a period of five calendar years which includes six terms of employment and eight or nine terms of course-work. Selections are made from among interested students who have completed at least one academic year in the professional chemistry or industrial hygiene program at this institution and whose academic standing and personal characteristics offer satisfactory potential for degree completion and productive employment. Interested students should consult the department chair for detailed information and applications.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN CHEMISTRY

Course	Credit
A. General Studies Component	41
.....	
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Chemistry majors must complete:	
Area III: Chemistry 111 and 112 (8)	
Mathematics 112 or 115 or 125 (3-4)	
Area V: Additional Requirements	23
Mathematics 122 or 126 (3-4)	
Technical Physics 251 and 252 (8)	
11-12 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.	—
	64

For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in

this area.

Course	Credit
B. Major Core Requirements:	
*Chemistry, General (111, 111L, 112, 112L)	8
Chemistry, Organic (311, 311L, 312, 312L)	10
Chemistry, Quantitative Analysis (321, 321LW)	<u>4</u> —
	14-22

C. Option I: Professional Chemistry

(Approved by the American Chemical Society)

Chemistry, Physical (381, 381L, 382, 382L)	10
Chemistry, Chemical Instrumentation (432, 432LW)	5
Chemistry, Advanced Inorganic (434, 434L)	4
Chemistry, Advanced Organic (437, 437L)	4
Chemistry, Biochemistry (441)	3
Chemistry, Quantum Mechanics (444)	<u>3</u> —
	29

Prescribed Supporting Courses:

Computer Science, Introduction to Computers (CS 110),

Intermediate Computer Topics (CS 120), or

Computer Science I (CS 155)	3
*Mathematics, Calculus I (MA 125)	4
*Mathematics, Calculus II (MA 126)	4
Mathematics, Calculus III (MA 227)	4

*These courses are required in the major or minor if not completed as a part of the General Studies Component.

Mathematics, Applied Differential Equations (MA 238)	3
*Physics, Technical (PH 251, 252)	<u>10</u> —
	14-28

Option II: General Chemistry

Chemistry, Instrumental Analysis (322, 322LW)	5
Chemistry, Introductory Physical (341, 341L)	<u>4</u> —
	9

Prescribed Supporting Courses:

Computer Information Systems, Business Applications of Microcomputer Software (CIS 125), Computer Science, Introduction to Computers (CS 110), Intermediate Computer Topics (CS 120), or Computer Science I (CS 155).....	3
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*Mathematics, Precalculus Algebra (MA 112), Mathematics, Calculus for Business and Life Sciences I (MA 121), and Mathematics, Calculus for Business and Life Sciences II (MA 122) or Mathematics, Calculus I (MA 125) and Mathematics, Calculus II (MA 126)	8-9
*Physics, Technical (PH 251, 252)	<u>10</u> —
	7-19

Course	Credit
<i>Option III: Environmental Chemistry</i>	
<i>Chemistry, Physical (381, 381 L, 382, 382L)</i>	10
<i>Chemistry, Chemical Instrumentation (432, 432LW)</i>	5
<i>Chemistry, Aquatic (460)</i>	3
<i>Chemistry, Environmental Regulations (465)</i>	3
<i>Chemistry, Atmospheric (470)</i>	3
<i>Chemistry, Environmental Laboratory (475L)</i>	<u>2</u>
	26
<i>Prescribed Supporting Courses:</i>	
<i>Computer Science, Introduction to Computers (CS 110),</i>	
<i>Intermediate Computer Topics (CS 120), or</i>	
<i>Computer Science I (CS 155)</i>	3
<i>*Mathematics, Calculus I (MA 125)</i>	4
<i>Mathematics, Calculus II (MA 126)</i>	4
<i>Mathematics, Applied Statistics I (MA 345)</i>	3
<i>*Physics, Technical (PH 251, 252)</i>	10
AND	
<i>One Sequence From The Following Two-Course Sequences</i>	
<i>Biology Sequence: Microbiology (BI 307)</i>	
<i>and Applied Bacteriology (BI 407)</i>	
OR	
<i>Chemistry Sequence: Biochemistry (CH 441) and</i>	
<i>Industrial Toxicology (IH 333)</i>	
OR	
<i>Earth Science Sequence, Physical Geology (ES 231)</i>	
<i>and Hydrogeology (ES 488)</i>	<u>6-8</u>
	16-32
<i>D. Minor:</i>	
<i>A minor is not required for Option I.</i>	
<i>A minor or a second major is required for Option II. A</i>	
<i>minor is not required for Option III.</i>	
<i>E. General Elective hours, if required, to bring total to 128.</i>	

**These courses are required in the major or minor if not completed as a part of the General Studies Component.*

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF
SCIENCE DEGREE WITH A MAJOR IN INDUSTRIAL HYGIENE

Course	Credit
A. General Studies Component.....	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Area V: Additional Requirements	23
23 hours from among any course listed in Arts and	
Sciences Area V elective courses or any UNA elective	
course to bring total to 23 hours.	—
	64

For the Bachelor of Arts degree the student must satisfy the follow

ing requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.

B. Major Core Requirements:

*Chemistry, General (CH 111, 111L, 112, 112L)	8
Chemistry, Organic (CH 311, 311L, 312, 312L)	10
Chemistry, Quantitative Analysis (CH 321, 321LW)	4
Chemistry, Instrumental Analysis (CH 322, 322LW)	5
Chemistry, Applied Physical (CH 341, 341L) 4 One of the following courses:	
Chemistry, Aquatic (CH 460); Chemistry, Environmental	
Regulations (CH 465); or Chemistry, Atmospheric (CH 470)	3
Industrial Hygiene, Occupational Health and Safety (IH 301)	3
Industrial Hygiene, Industrial Ergonomics (IH 310)	3
Industrial Hygiene, Problems (IH 322)	3

*These courses are required in the major or minor if not completed as a part of the General Studies Component.

Industrial Hygiene, Industrial Toxicology (IH 333)	3
Industrial Hygiene, Industrial Safety (IH 411)	3
Industrial Hygiene, Airborne Hazards (IH 422)	4
Industrial Hygiene, Sampling Methods in Industrial Hygiene (IH 444) .	4
Industrial Hygiene, Special Topics in Occupational Health and Safety (IH 490)	<u>3</u> ——
	52-60
Prescribed Supporting Courses:	
*Biology, Principles (BI 111)	4
Biology, Human Anatomy and Physiology (BI 141, 142)	8
Biology, Microbiology (BI 307)	4
Computer Science, Introduction to Computers (CS 110), Intermediate Computer Topics (CS 120), or Computer Science I (CS 155).....	3

Course	Credit
*Mathematics, Calculus for Business and Life Sciences I (MA 121), and Mathematics, Calculus for Business and Life Sciences II (MA 122) or Mathematics, Calculus I (MA 125)	4-6
Mathematics, Fundamentals of Statistics (MA 147)	3
*Physics, Technical (PH 251, 252)	<u>10</u> —
	36-38
Recommendations for electives include Biology 402, 407; Biology/Chemistry 441; Earth Science 375; Industrial Hygiene 495.	

C. Minor:

A minor is not required for this major.

D. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A MINOR IN CHEMISTRY

Course	Credit
General Chemistry (111, 111L, 112, 112L)	8
Chemistry Electives from among:	
Organic Chemistry (311, 311L, 312, 312L)	
Quantitative Analysis (321, 321LW)	
Instrumental Analysis (322, 322LW)	
Introductory Physical Chemistry (341, 341L)	<u>13</u> —
Total	21

DEPARTMENT OF COMMUNICATIONS AND THEATRE

Chair: Dr. Bill M. Huddleston, 105 Communications Building, 765-4247

Faculty: Dr. Crandon, Mrs. Darnell, Dr. Foote, Ms. Green, Dr. Martin, Dr. McMullen, Dr. Ruebhausen, Ms. Sanders, Mrs. Young

The department offers a major program in communication arts with indi-

*These courses are required in the major or minor if not completed as a part of the General Studies Component.

vidual options in broadcast journalism, entertainment media production, entertainment publicity-promotion, journalism, public communication, public relations, radio-television-film and theatre. This major program may lead to the Bachelor of Arts or the Bachelor of Science degree. The department offers minor fields in broadcast journalism, journalism, public communication, public relations, radio-television-film, and theatre as well as basic coursework required in the general studies component in all degree programs.

The option in broadcast journalism combines training in reporting skills with electronic media techniques.

The option in entertainment media production is designed for students who desire careers in audio, video or multi-media production that are based in the entertainment industry.

The option in entertainment publicity-promotion allows students who desire careers in the entertainment industry to focus their studies on publicity, public relations or media promotions.

The option in journalism provides theory and application in news gathering and preparation for diverse print media.

The option in public communication is designed for students who wish to emphasize the applied and theoretical aspects of human communication as a social science.

The public relations option provides preprofessional training for careers in information services or further study in applied communications.

The option in radio-television-film is intended to provide students with the practical experience necessary for careers in the broadcasting industry as well as a base for advanced study in telecommunications or mass communication.

The theatre option is designed for students who wish to pursue a professional career in theatre operations or for those who will seek advanced study.

Upon completion of all communication options, students will be required to pass Portfolio Preparation (COM/TH 420). This class will include the university required exit examination.

The department also offers to all university students the opportunity to participate in theatrical and radio-television productions through credit courses or as extracurricular activities.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN COMMUNICATION ARTS

Course	Credit
A. General Studies Component.....	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Area V: Additional Requirements	23
Students selecting Option I: Broadcast Journalism should take: COM 120, COM 200, COM 201, COM 220, COM 241, COM 242 Either CIS 125, CS 110, or CS 120	
4 hours from any course listed in Arts & Sciences Area V elective courses or any UNA elective courses to bring total to 23 hours.	
Students selecting Option II: Entertainment Media Production should take:	
COM 120, COM 200, COM 201, COM 240, MU/ENT 225	
Either CIS 125, CS 110, or CS 120 7 hours from any course listed in Arts & Sciences Area V	
elective courses or any UNA elective course to bring total to 23 hours.	

Course	Credit
<p>Students selecting Option III: Entertainment Publicity-Promotion should take: COM 120, COM 200, COM 201, COM 220, COM 230, COM 240, MU/ENT 225 Either CIS 125, CS 110, or CS 120 1 hour from any course listed in Arts & Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.</p> <p>Students selecting Option IV: Journalism should take: COM 120, COM 200, COM 201, COM 220 Either CIS 125, CS 110, or CS 120 10 hours from any course listed in Arts & Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.</p> <p>Students selecting Option V: Public Communication should take: COM 120, COM 200, COM 201, COM 210, COM 230 Either CIS 125, CS 110, or CS 120 7 hours from any course listed in Arts & Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.</p> <p>Students selecting Option VI: Public Relations should take: COM 120, COM 200, COM 201, COM 220, COM 230, COM 240 Either CIS 125, CS 110, or CS 120 4 hours from any course listed in Arts & Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.</p> <p>Students selecting Option VII: Radio-Television-Film should take: COM 120, COM 200, COM 201, COM 241, COM 242 Either CIS 125, CS 110, or CS 120 7 hours from any course listed in Arts & Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.</p> <p>Students selecting Option VIII: Theatre should take: COM 201, TH 110, TH 120, TH 200, TH 220, TH 250 Either CIS 125, CS 110, or CS 120 6 hours from any course listed in Arts & Sciences Area V elective courses or any UNA elective course to bring total to 23 hours</p>	

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For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.

B. Major requirements. Students must select one of eight options below.

Course	Credit
Option I: Broadcast Journalism	43-69
Either CIS 125†, CS 110†, or CS 210†	
COM 120†, COM 200†, COM 201†, COM 220†, COM 241†, COM 242†, COM 306, COM 310, COM 314, COM 356*, COM 370*, COM 380*, COM 400, COM 420**, COM 430*, COM 450, RTF 493, RTF 495, TH 330	
2 courses from: COM 308, COM 316, COM 320, COM 328*, COM 440, COM 470*	
2 courses from: AR 404*, EC 251†, ES/GE 330*, GE 331*, PS 241†, PS 243	
Option II: Entertainment Media Production	46-62
Either CIS 125†, CS 110†, or CS 120† COM 120†, COM 200†, COM 201†, COM 306, COM 310, COM 314, COM 316, COM 420**, COM 450, MU 225†	
Either COM 400 or ENT 470	
Either MU/ENT 325* or MU/ENT 329*	
Either MU/ENT 495 or RTF 495	
8 courses from: AR 406*, COM 240†, COM 380*, COM 430*, COM 460*, MU/ENT 335*, MU/ENT 425*, MU/ENT 426*, MU/ENT 430*, TH 340, TH 350	
Option III: Entertainment Publicity-Promotion	40-62
Either CIS 125†, CS 110†, or CS 120†	
COM 120†, COM 200†, COM 201†, COM 220†, COM 230†, COM 240†, COM 306, COM 310, COM 314, COM 374*, COM 390*, COM 420**, COM 442*, COM 450, ENT 470, MU 225†, MU/ENT 325*	
Either COM 499 or MU/ENT 495	
Either MU/ENT 325* or MU/ENT 329*	
3 courses from: COM 300, COM 368*, COM 370*, COM 410*, COM 470*, ENT 490, MU/ENT 329*, TH 460	
Option IV: Journalism	36-60
Either AR 200, EN 300W, EN 341W, EN 455 Either AR 404*, MK 360, or MK 363	
Either CIS 125†, CS 110†, or CS 120†	
COM 120†, COM 200†, COM 201†, COM 220†, COM 306, COM 310, COM 314, COM 356*, COM 368*, COM 370*, COM 400, COM 410*, COM 420**, COM 450, JN 495	
Either COM 230†, COM 440, COM 470*	
2 courses from: EC 251†, PS 241†, PS 243	
Option V: Public Communication	44-60
Either CIS 125†, CS 110†, or CS 120† COM 120†, COM 200†, COM 201†, COM 210†, COM 230†, COM 306, COM 308, COM 310, COM 314, COM 316, COM 386, COM 402, COM 420**, COM 440, COM 450, COM 480	
Either COM 330 or COM 350	
3 courses from: COM 320, COM 330, COM 350, COM/EN 472, COM 499, MA 147, MG 331*, MK 461*, PHL 202, PY 375, PY/SO 442, SO 310	

Course	Credit
Option VI: Public Relations	43-63
Either CIS 125t, CS 110t, or CS 120t	
COM 120t, COM 200t, COM 201 t, COM 220t, COM 230t, COM 240t, COM 306, COM 310, COM 314, COM 374*, COM 390*, COM 400, COM 410*, COM 420**, COM 442, COM 450, MK 360, MK 363*, PR 495	
2 courses from: COM 308, COM 330, COM 402, COM 440	
Option VII: Radio-Television-Film	41-66
Either CIS 125t, CS 110t, or CS 120t	
COM 120t, COM 200t, COM 201 t, COM 241 t, COM 242t, COM 306, COM 310, COM 314, COM 316, COM 317*, COM 328*, COM 340*, COM 380*, COM 400, COM 420**, COM 430*, COM 450, COM 470*, RTF 495	
3 courses from: AR 200, CIS 125t, COM 220t, COM 230t, COM 300, COM 308, COM 335, COM 374*, COM 402, COM 460*, ES/GE 330*, GE 331, MK 360, MK 363*, TH 350, TH 370*	
Option VIII: Theatre	46-66
Either CIS 125t, CS 110t, or CS 120t	
COM 201 t, TH 100 (4 times), TH 110t, TH 120t, TH 200t, TH 210t, TH 220t, TH 250t, TH 370*, TH 402, TH 405, TH 420**, TH 430, TH 440, TH 450, TH 460	
Either TH 340, TH 350, or TH 360	
3 courses from: TH 330*, TH 340, TH 350, TH 360, TH 400*, TH 470, TH 480	
C. Minor:	
A minor is not required for any option in this major.	
D. General Elective hours, if required, to bring total to 128.	
Requirements for a Minor in Broadcast Journalism	18
COM 220, COM 240, COM 356*, COM 380*, COM 400, TH 330	
Requirements for a Minor in Journalism	18
COM 220, COM 356*, COM 368*, COM 370*, COM 400, COM 410*	
Requirements for a Minor in Public Communication	19
COM 200, COM 306, COM 308, COM 330, COM 402, COM 440	
Requirements for a Minor in Public Relations	18
COM 220, COM 230, COM 240, COM 374*, COM 390*, COM 442*	
Requirements for a Minor in Radio-Television-Film	18
COM 240, COM 316; 4 courses from: COM 300, COM 328*, COM 400, COM 430*, COM 470*	
Requirements for a Minor in Theatre	18
TH 220, TH 250, TH 370*; 3 courses from: TH 340, TH 350, TH 360, TH 400*, TH 402, TH 405, TH 430, TH 440, TH 460, TH 470, TH 480	
<i>(These courses are required in the major if not completed as a part of the General Studies Component.</i>	
*Prerequisites for these classes.	
**Includes exit examination.	

DEPARTMENT OF ENGLISH

Chair: Dr. Ronald E. Smith, 113A Willingham Hall, 765-4238

Faculty: Dr. Adams, Dr. Atkinson, Dr. Brewton, Mr. Brown, Ms. Burkhead, Mrs. Butler, Dr. Chishty-Mujahid, Ms. Dodson, Dr. Foster, Mrs. Garner, Dr. Gaunder, Dr. Johnson, Mrs. Kingsbury, Dr. Lott, Dr. Minor, Dr. Riser

The Department of English offers a major program in English with options in English, Language Arts, and Professional Writing leading to the Bachelor of Arts or Bachelor of Science degree. The department also offers a master's degree in English as well as minor programs in English and Professional Writing and basic courses required in the general studies components in all degree programs.

The option in English is designed for students who wish to concentrate in this field or to continue to graduate study in English. The option in Language Arts is designed for students who wish to teach English/ Language Arts in grades 6-12. A second major in education is required for teacher certification. The option in Professional Writing is designed to accommodate students who may wish to develop composition skills as preparation for future employment.

Successful completion of an exit examination is required of all students choosing the English option or the Professional Writing option.

The minor concentration in English, with its emphasis on communicative and interpretive skills, provides strong support to practically any major in the curriculum.

The regular sequence of English courses is English 111-112, First-Year Composition, and English 231-232, Literature of the Western World, for a total of 12 credit hours. Grades in all First-Year Composition courses (EN 111, EN 112, EN 121, EN 122) are awarded as A, B, C, or NC (no credit). Students who receive a grade of NC must repeat the course consecutively until they have earned a grade of C or better. Students with a minimum score of 28 on the ACT English Subtest or a minimum of 670 on the SAT English Subtest may choose to enroll in the Honors Program in English, in which the sequence is 121-122, First-Year Composition-Honors, and 233234, Honors Studies in Western Literature. Students completing the honors sequence may choose to enroll in 304, Honors Seminar-Literature as an elective course of study. (1) Students who receive the score of 4 or 5 on the Advanced Placement exam in English may receive credit for EN 121. (2) EN 111 students who are recommended by their EN 111 professors may enter the honors program by enrolling in EN 122. Students from categories 1 and 2 completing the honors sequence (including EN 304) with a 3.2 average or higher on the last 9 hours will be designated in commencement programs as graduating with "honors in English" and a notation will be designated on their transcripts. CLEP credit will be for EN 111-112 and will not apply toward graduating with honors in English. Students receiving a grade of **NC** in English 121 must return to the sequence beginning with

English 111. Students who receive a grade of **NC** in English 122 must complete the sequence by enrolling in English 112. Students who successfully complete English 122 enter the sophomore English sequence with English 233, Honors Studies in Western Literature I, and proceed to English 234, Honors Studies in Western Literature II. Students receiving a grade of **F** in English 233 must reenter the sequence beginning with English 231; students receiving a grade of **D** in English 233 may choose to complete the sequence by enrolling in English 232 or in English 234. Students receiving a grade of **F** in English 234 must complete the sequence by enrolling in English 232.

All students with a score of 15 or below on the ACT English Subtest or 410 or below on the SAT English Subtest are required to enroll in English 099, Basic English, as the first course in English. English 099 is a noncredit course which counts for the equivalent of three credit hours on the schedule load and for which only grades of **S** (Satisfactory) and **U** (Unsatisfactory) are reported. A student receiving a grade of **S** advances to the credit sequence beginning with English 111. A student receiving a grade of **U** may repeat the course. After the second term in English 099 the student, no matter what the grade, must proceed to the credit sequence beginning with English 111.

Regularly scheduled personal conferences with the instructor are required of all students taking First-Year Composition; however, any students having difficulty in their written work are urged to confer with any members of the departmental faculty who are available for assistance.

Requirements for the Bachelor of Arts degree with a major in English include completion of the general studies component for the Bachelor of Arts degree, the major field, an approved minor field, and remaining general electives to bring the total to 128 credit hours.

Students with major course concentrations in English and those who choose language arts as a teaching field concentration in a program in education certification are required to take a standardized exit examination in English for graduation. For students majoring in professional writing, the exit examination will consist of a portfolio evaluation.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN ENGLISH

Course	Credit
A. General Studies Component.....	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Area V: Additional Requirements	23
CS 110 (3)	
20 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours. EN 231 or EN 233 is prerequisite to all courses in English numbered 300 or above.	

Course	Credit
For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.	

B. Major Core Requirements:

Nine hours American, British, or world literature survey courses selected from the following courses:

EN 311, EN 312, EN 321, EN 322, EN 331	9
Three hours in a writing intensive course	
(EN 341W, EN 455W, or EN 472W)	<u>3</u> –
	12

C. Option I: English

Three hours in a course with a language, history of language, or rhetoric concentration:

(EN 306, EN 441, EN 442, or EN 472W)	3
EN 360	3

Three hours in a course at the 400 level with a single author, single period, or special topic concentration	3
18 hours English electives (300-400 level)	<u>18</u>

27

Option II: Professional Writing

Required Component:

Technical Writing (EN 300W)	3
Advanced Composition (EN 341W)	3
Technical Editing (EN 439W)	3
Elective Component:	

(A total of 18 required hours will be selected from the three sections listed below)

Six to nine hours from the following: (writing intensive courses) Creative Writing (EN 455W)	3
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Creative Writing (EN 456W)	3
Classical and Contemporary Rhetoric (EN 472W)	3
Selected Topics in Writing (EN 495)	3
Six to nine hours from the following: (web publishing/journalism) Desktop and Web Publishing for Business (CIS 495)	
(Prerequisites: CIS 125 Business Applications of	
Microcomputer Software (3), CIS 375 Applications	
of the Internet and WWW (3) – Prerequisite: CIS 125	
or equivalent)	
Basic Reporting (COM 220)	3
Feature Writing (COM 370)	3
Desktop Publishing (COM 410)	3
(Prerequisite: COM 220 Basic Reporting)	
Business Communication (MG 482W)	3

Course	Credit
Three hours from the following: (language/history or language/rhetoric)	
History of the English Language (EN 441)	3
Survey of Grammar (EN 442)	3—
	27

Option III: Language Arts

English Component:

British/World Literature Course	3
Introduction to English Linguistics (EN 306)	3
Literature for Young People (EN 323)	3
Oral Tradition (EN 324)	3
Shakespeare (EN 403).....	3
Instruction of Composition (EN 443)	3
Communications Component:	

Fundamentals of Electronic Media (COM 316)	3
Group Communication (COM 330)	3
Editing (COM 368)	3—
	27

General Studies requirements from Area V:
COM 201 Fundamentals of Speech (3) COM
220 Basic Reporting (3)

TH 210 Introduction to Theatre (3)

TH 220 Acting I (3)

Electives:

An additional 24 hours above the 200 level.* REQUIREMENTS

*For teacher certification, see the College of Education requirements. B.A. requires an additional 12 hours of foreign language instruction.

FOR A MINOR IN ENGLISH

Course	Credit
Literature of the Western World (231-232) or Honors Studies in Western Literature (233-234)	6
Survey of English Literature (311-312)	6
Survey of American Literature (321-322)	6
Advanced Composition (341)	3
History of the English Language (441)	3 —
Total	24

REQUIREMENTS FOR A MINOR IN PROFESSIONAL WRITING

Course	Credit
Required Component:	
Technical Writing (EN 300W)	3
Advanced Composition (EN 341W).....	3
Technical Editing (EN 439W).....	3

Course	Credit
Elective Component:	
(A total of nine required hours will be selected from the two sections listed below)	
Three to six hours from the following: (writing intensive courses)	
Creative Writing (EN 455W)	3
Creative Writing (EN 456W)	3
Classical and Contemporary Rhetoric (EN 472W)	3
Selected Topics in Writing (EN 495)	3
Three to six hours from the following: (web publishing/journalism)	
Desktop and Web Publishing for Business (CIS 495).....	3
(Prerequisites: CIS 125 Business Applications of Microcomputer Software (3), CIS 375 Applications of the Internet and WWW (3) – Prerequisite: CIS 125 or equivalent)	
Basic Reporting (COM 220)	3
Feature Writing (COM 370)	3
Desktop Publishing (COM 410)	3
(Prerequisite: COM 220 Basic Reporting)	
Business Communication (MG 482W)	3—
Total	18

REQUIREMENTS FOR A MINOR IN WOMEN'S STUDIES

Students will complete 18 hours in women's studies including WS 100, Introduction to Women's Studies, and WS 495, Senior Seminar in Women's Achievement and Theory. At least 6 hours of the 12 hours of women's studies electives must be taken outside the student's major.

Course	Credit
Introduction to Women's Studies (WS 100)	3
Senior Seminar in Women's Achievement and Theory	3

Women's Studies Electives

12 –

Total

18

DEPARTMENT OF FOREIGN LANGUAGES

Chair: Dr. T. Craig Christy, 204 Wesleyan Hall, 765-4390

Faculty: Dr. Adler, Dr. Lindley, Dr. Vance

The Department of Foreign Languages provides a major in Foreign Languages and Foreign Languages for Commerce, both of which offer concentrations in French, German or Spanish. The department also offers a major in foreign languages, professional option, with concentrations in French, German, or Spanish. A minor is available. From 6 to 14 credit hours in the same foreign language are required in the general studies

component of all Bachelor of Arts degree programs. It is strongly recommended that coursework through the intermediate level be taken by all students who plan to continue their studies at the graduate level.

For the general studies component, students who have successfully completed two or more years of high school French, German or Spanish may enroll in either introductory or intermediate level courses. Those who choose the intermediate level may fulfill the language requirement with six hours. Those who choose intermediate level should take the CLEP examination if they wish to receive credit for the introductory courses. Students with three or more years of a foreign language in high school or who have native competency may satisfy the requirement by making a sufficient score on the Level II CLEP examination to gain credit and to qualify for advanced placement.

Introductory and intermediate level courses in Foreign Languages are offered in first and second semester sequences only, which requires students to begin either level in the fall semester. Since advanced courses are offered only in alternate years, those planning to major or minor in Foreign Languages should begin their study as a freshman.

Students with a major concentration in Foreign Languages are required to take the exit exam for graduation.

REQUIREMENTS FOR A BACHELOR OF ARTS DEGREE IN FOREIGN LANGUAGES

Course	Credit
A. General Studies Component.....	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Foreign Language majors must complete:	
Area II: Art 170	(3)
Area III: Mathematics 112	(3)
Area IV: Geography 102	(4)
History 101 and 102	(6)
Area V: Additional Requirements	23 If
not taken within Areas I-IV, students must complete:	
Art 170	(3)
Geography 102	(4)
History 101 and 102	(6)
Mathematics 112	(3)
In addition, students must complete 7 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring the total to 23 hours. Students who have fulfilled the courses stipulated in Areas I-IV must take 23 hours from among courses in the Arts and Sciences list or any UNA elective course.	

Course	Credit
B. Major Core Requirements:	
Introduction to Languages (FL 100)	3
Six hours (three for Option III) from the following courses: Spanish for Professionals (SP 103) – (Option III only) Introduction to International Studies (FL 101) Sources of Vocabulary (FL 200) – (Option I and II only) Culture through Cinema (FL 301)	
Cross-Cultural Conflicts (FL 302)	
Intercultural Experience (IE 499) – (Options I and II only)	3-6
*Senior Seminar (FL 498).....	1
Option I requires 18 hours in a second language	18
Option II and III requires 14 hours in a second language	<u>14</u> —
	21-28
C. Option I: Foreign Languages	
**†Introductory Courses (101, 111, 102, 112)	8
**†Intermediate Courses (201, 202)	6
Nine hours from 300-level courses	9
*** Nine hours from 400-level courses	<u>9</u> —
	32
No minor is required for Option I.	
Option II: Foreign Languages for Commerce	
**†Introductory Courses (101, 111, 102, 112)	8
**†Intermediate Courses (201, 202)	6
12 hours from 300-level courses, including 353	12
*** Advanced Commercial Language (403)	<u>3</u> —
	29
For Option II, a minor is required in one of the following areas:	
Accounting, Business Administration, Business Technology	

Management, Computer Information Systems, Economics,

Management, or Marketing 18-24 **Option III: Foreign Languages, Professional**

Introductory Courses (101, 111, 102, 112)	8
Intermediate Courses (201, 202)	6
FR, GR or SP 350; FR, GR or SP 351; FR, GR or SP 352	9
Nine hours of FR, GR or SP electives at the 400 level	<u>9</u> –
	32

For Option III, a second major is required in consultation with the department.

†Students with two or more high school units in French, German, or Spanish may consider satisfying this requirement through CLEP credit.

*FR 498, GR 498, and SP 498 can be substituted for FL 498.

**These courses are required if not completed as a part of the General Studies Component.

***Fulfills computer literacy requirement.

Course	Credit
Recommended Supporting Courses:	

Accounting Concepts I (AC 291)

Business Applications of Microcomputer Software (CIS 125)
 Principles of Macroeconomics (EC 251) International Trade
 and Finance (EC 353) International Business (MK 491)
 D. General Elective hours, if required, to bring the total to 128.

MINOR IN FOREIGN LANGUAGES Courses
must be chosen from a single concentration.

Course	Credit
*Introductory (101-102)	6
*Language Laboratory (111-112).....	2
*Intermediate (201-202)	6
Conversation (350)	3
Two courses from the 300 or 400 level	6 —
	23

CRITICAL LANGUAGES PROGRAM

The knowledge of foreign languages and cultures is considered critical to our national, economic and military interests. In association with the National Association of Self-Instructional Language Programs, the Department of Foreign Languages offers self-instructional/tutorial language study in the less commonly taught languages such as Arabic, Chinese, Italian, Japanese, Russian, Turkish, and other languages. The courses primarily emphasize the development of audio-lingual skills. Participants prepare independently and meet with a tutor twice each week in the late afternoon or evening. Only highly motivated students who can work independently are encouraged to enroll. The introductory courses are for four hours credit each semester. Prerequisite: previous study of a foreign language or by permission of the department chair.

MINOR IN INTERNATIONAL STUDIES

The minor in International Studies is a rigorous interdisciplinary program which offers students an excellent opportunity to prepare themselves for the many and diverse challenges of our increasingly interconnected world. By complementing their major area of study with the minor in International Studies, students will gain a broad understanding of the interrelations among the countries, cultures and citizens of the world. The minor in International Studies, which brings together courses that have an international focus, is an

*These courses are required if not completed as a part of the General Studies Component.

excellent complement to traditional majors in both the humanities and in business, and provides a substantial foundation for such professional careers as international business, teaching, and government service. It is also excellent preparation for graduate study in such disciplines as business, international management, law, and the humanities.

All students pursuing the minor in International Studies are required to complete 21 semester credit hours, at least half of which must be in junior-senior level courses (numbered 300-400), as stipulated below. Of the 18 credit hours required in sections II and III, at least nine credit hours must be taken outside the student's major.

Course	Credit
Introduction to International Studies (FL 101)	3
12 semester credit hours selected as follows:	
3 semester credit hours of geography courses selected from the following:	
World Regional Geography (GE 102)	3
Geography of Europe (GE 301)	3
Geography of North America (GE 304)	3
Geography of Latin America (GE 305)	3
Economic Geography (GE 321)	3
Geography of Africa (GE 350)	3
Problems in Political Geography (GE 402/PS 402)	3
Geography of the Middle East (GE 412)	3
Geography of the Far East (GE 413)	3
Advanced Cultural Geography (GE 460)	3
3 semester credit hours of history courses selected from the following:	
Survey of World Civilization Since 1500 (HI 102)	3
Nineteenth-Century European History (HI 427)	3
Twentieth-Century European History (HI 429)	3
Russian History Since 1801 (HI 435)	3
Latin American History Since 1824 (HI 437)	3
History of the Caribbean (438)	3
The Middle East Past and Present (HI 444/PS 444)	3
History of Africa (HI 446)	3
History of the Far East (HI 447)	3
The Diplomatic History of the United States (HI 478/PS 478)	3
Contemporary United States Foreign Policy (HI 481/PS 481)	3
3 semester credit hours of humanities courses selected from the following:	
Introduction to Art History (AR 180)	3
Art History Survey II (AR 282)	3
World Literature (EN 331)	3
Language and Culture (EN 451)	3
Contemporary World Literature (EN 463)	3
Culture through Cinema (FL 301)	3
Cross-Cultural Interaction (FL 302)	3
French Civilization and Culture (FR 352)	3
German Civilization and Culture (GR 352)	3
Cultural Anthropology (SO 350)	3

Course	Credit
Law and Society (SO 430)	3
Spanish Civilization (SP 351)	3
Latin American Civilization (SP 352)	3
	<hr/>
	3
3 semester credit hours selected from the following:	
International Law of Commerce (BL 455)	3
International Trade and Finance (EC/FI 353).....	3
International Business (MK/MG 491)	3
International Entrepreneurship (MG 493)	3
International Relations (PS 431)	3
Comparative Government and Politics (PS 433)	3
International Organization (PS 435)	3
Global Women's Issues (WS 354)	3
	<hr/>
	3
6 additional semester credit hours selected from any two of the previous sections.....	21

All students pursuing the minor in International Studies must complete four college semesters, or the equivalent, in a single foreign language. Students already prepared to enter intermediate-level language courses should take the CLEP examination to receive credit for the introductory courses. Students with three or more years of a foreign language in high school or who have native competency may satisfy the requirement, and receive credit, by making a sufficient score on the Level II CLEP examination. Students considering the minor in International Studies should select the following courses to fulfill General Studies requirements: GE 102, HI 102, AR 180 or AR 282.

DEPARTMENT OF GEOGRAPHY

Chair: Dr. William R. Strong, 120 Wesleyan Hall, 765-4218

Faculty: Dr. Gaston, Dr. Holland, Mrs. Keys-Mathews, Dr. Koti

The Department of Geography offers a major program with two options in geography leading to the Bachelor of Arts or Bachelor of Science degree, a minor program in geography, and in Geographic Information Science, a certificate in Geographic Information Systems, coursework applicable to general studies components in all programs, and coursework contributory to other curricula, including the programs for the preparation of elementary and secondary teachers offered through the College of Education.

Option I: Essential geography is designed to serve students interested in careers in government, business, and industry as geographers and cartographers or in teaching geography or social studies in the elementary,

middle, junior or high school. Essential geography students must complete a minor or second major in a field of their interest. This program prepares students for graduate studies within geography and education.

Option II: Geographic Information Science is designed to serve students who wish to prepare for careers in the more technical aspects of applied geography, including the fields of geographic information systems (GIS), remote sensing, computer cartography, city and/or regional planning, economic geography, resource utilization, and land use analysis. The option in Geographic Information Science also provides preparation for graduate study in geography leading to careers in applied geography or for research and teaching at the collegiate level.

The Certificate in Geographic Information Systems is designed for professionals wishing to increase job skills and geography majors wanting their skills recognized through a certificate program.

Students majoring in geography are required to take the exit examinations for graduation. All geography courses may require a field trip.

REQUIREMENTS FOR A BACHELOR OF ARTS OR A BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN GEOGRAPHY

Course	Credit
A. General Studies Component	41
For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements.	
Area V: Additional requirements	23
.....	
Microcomputer Course (3)	
Natural Science Course (4)	
Statistics Course (3)	
13 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.	
	64
For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.	
B. Major Core Requirements:	
*World Regional Geography (102)	3
*Physical Geography (111, 112)	8
Maps and Map Interpretation (225)	3
History and Philosophy of Geography (300W).....	3
Economic Geography(321).....	3
Use and Interpretation of Aerial Photography (323).....	3
	23

*These courses are required in the major if not completed as a part of the General Studies Component.

Course	Credit
C. Option I: Essential Geography	
Human Geography (GE 260)	3
Geography of US and Canada (GE 304)	3
Conservation of Natural Resources (GE 403)	3
One Topical Geography Elective (300/400)	3
One Regional Geography Elective (300/400)	3
Minor or Second Major Required	15
Option II: Geographic Information Science	
Field Methods and Technology in Geography (GE 224)	3
Remote Sensing (GE 324)	3
Cartography (GE 325)	3
Conservation of Natural Resources (GE 403)	3
Geographic Information Systems (GE 424)	3
Advanced Digital Techniques in Geography (GE 484)	3
One Geography Elective	3
One Geography Regional Course	3
Prescribed Supporting Courses:	24
Computer Information Systems or	
Computer Science Elective (200 level)	6
Computer Information Systems or	
Computer Science Electives (300-400 level)	9
*Mathematics or Quantitative Methods Elective	
(200 level or above, excluding MA 306)	3

*This course is required in the major if not completed as a part of the General Studies Component.

Elementary Statistics (MA 147) or

Applied Statistics I (MA 345)

$\frac{3}{18-21}$

D. Minor:

A minor or second major is required for Option I. A minor is not required for Option II.

E. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A MINOR IN ESSENTIAL GEOGRAPHY

Course	Credit
World Regional Geography (102)	3
Principles of Physical Geography (111, 112)	8
History and Philosophy of Geography (300W)	3
Geography Electives (including six hours of 300-400 level)	9—
Total	23

REQUIREMENTS FOR A MINOR IN GEOGRAPHIC INFORMATION SCIENCE

Course	Credit
Principles of Physical Geography I or II (GE 111 or GE 112)	4
Maps and Map Interpretation (GE 225)	3
Cartography (GE 325)	3
Geographic Information Systems (GE 424)	3
Advanced Digital Techniques in Geography (GE 484)	3
From Topical Geography (321, 323, 324, 330, 331, 390, 402, 403, 435, 460)	3 —
	19

REQUIREMENTS FOR A CERTIFICATE IN GEOGRAPHIC INFORMATION SYSTEMS (refer to section on SPECIAL PROGRAMS AND ACTIVITIES)

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

Chair: Dr. Daniel Heimmermann, 109 Willingham Hall, 765-4306

Faculty: Dr. Aguado, Dr. Burton, Dr. Collins, Dr. Makowski, Dr. Mueller, Dr. Nelson, Dr. Osborne, Dr. L. Rieff, Dr. Saeki, Dr. Schoenbachler, Dr. Ward

The Department of History and Political Science offers majors in history and in political science. These programs lead to a Bachelor of Arts or a Bachelor of Science degree. Minors are offered in these same academic areas. The department also offers a minor in women's studies and a joint minor in religion and philosophy. Also, in cooperation with the College of Education, the department offers the academic coursework appropriate for the preparation and certification of secondary teachers in the fields of history and social science.

The history program is designed to serve students who wish to prepare for graduate study in history, for teaching history and social studies in the high schools, for entry into professional schools such as law, library science, journalism, seminary training, and for careers in business, educational institutions, and other areas which require a broad general education.

The political science program is designed to serve students who wish to prepare for graduate study leading toward teaching and research at the collegiate level or to careers requiring advanced study; for careers in federal, state, and local government, including municipal and private planning agencies; and for teaching social studies in the high schools. Programs in political science are also appropriate to preprofessional preparation for law.

Students with majors in history or political science and those who choose history or social science as a teaching field for education certification are

required to take exit examinations for graduation.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN HISTORY

Course	Credit
A. General Studies Component	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Area V: Additional Requirements	
23 23 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.	<u>64</u>

For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.

- B. Major Core Requirements:
- | | |
|--|----|
| *World Civilization (101, 102) | 6 |
| *United States History (201, 202) | 6 |
| History and Historical Research (301W)..... | 3 |
| History Electives (300-400 level) with at least nine hours in
non-United States history | 21 |
| Prescribed Supporting Course: | |
| Introduction to Data Processing (CIS 100) or Introduction to Computers (CS
110) or
a higher numbered Computer Information Systems or
Computer Science course..... | 3 |
- C. Minor:
- A minor or a second major is required for this major.
- D. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN POLITICAL SCIENCE

Course	Credit
A. General Studies Component	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Area V: Additional Requirements	23
Political Science 241 (3)	
Political Science 242 (3)	
17 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.	—

*These courses are required in the major if not completed as a part of the General Studies Component.

Course	Credit
For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.	
B. Major Core Requirements:	
*United States Government and Politics (241)	3
Contemporary Issues in United States Politics (242)	3
Political Science Scope and Methods (301W)	3
Comparative Government and Politics (433)	3
Constitutional History of the United States (477)	3
American Political Thought (489)	3
Complete at least six hours from among the following:	
PS 243, 342, 344, 345	6
Complete one of the following:	
PS 351, 352	3
Complete at least six hours from among the following:	
PS 431, 435, 481	6
Political Science Elective (300-400 level)	3 —
	36
Prescribed Supporting Course:	
Introduction to Data Processing (CIS 100) or Introduction to Computers (CS 110) or	
a higher numbered Computer Information Systems or	
Computer Science course.....	3
C. Minor:	

*This course is required in the major if not completed as a part of the General Studies Component.

A minor or a second major is required for this major.

D. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A MINOR IN HISTORY	
Course	Credit
World Civilization (101, 102)	6
United States History (201, 202)	6
History and Historical Research (301W)	3
History Electives (300-400 level)	9
Total	<u>24</u>

REQUIREMENTS FOR A MINOR IN POLITICAL SCIENCE

Course	Credit
United States Government and Politics (241)	3
Political Science Scope and Methods (301W)	3
Constitutional History of the United States (477)	3
Complete at least six hours from among the following:	
PS 342, 344, 345	6
Complete at least six hours from among the following:	
PS 431, 433, 435, 481	6
Political Science Elective	<u>3</u>
Total	24

REQUIREMENTS FOR A MINOR IN RELIGION AND PHILOSOPHY

Course	Credit
Introduction to Philosophy (PHL 201)	3
Logic (PHL 202)	3
Old Testament Introduction (RE 221)	3
New Testament Introduction (RE 231)	3
Philosophy of Religion (RE/PHL 303)	3
Religion/Philosophy Electives (300-400 level) with at least	
three hours in religion and three hours in philosophy	<u>9</u>
Total	24

REQUIREMENTS FOR A MINOR IN WOMEN'S STUDIES Students will complete 18 hours in women's studies including WS 100, Introduction to Women's Studies, and WS 495, Senior Seminar in Women's Achievement and Theory. At least 6 hours of the 12 hours of women's studies electives must be taken outside of the student's major.

Course	Credit
Introduction to Women's Studies (WS 100)	3
Senior Seminar in Women's Achievement and Theory (WS 495)	3
Women's Studies Electives	<u>12</u>

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Chair: Dr. H. David Muse, 101 Mathematics Building, 765-4286

Faculty: Dr. Allan, Dr. Brackin, Mr. Briley, Mr. Center, Dr. Childs, Mr. Cope,
Mrs. Henderson, Mrs. Laubenthal, Dr. MacDonald, Mrs. Prude, Dr.
Robinson, Mrs. Roden, Mr. Shull, Dr. Stenger, Ms. Truitt

The Department of Mathematics and Computer Science offers major programs in mathematics and in computer science leading to the Bachelor of Arts or Bachelor of Science degree, minor programs in mathematics and

in computer science, and provides coursework in mathematics and computer science applicable to degree and preprofessional programs in other departments and to partial satisfaction of the general studies component requirement in all programs. The department also provides the subject field for preparation of secondary teachers of mathematics offered through the College of Education. Departmental faculty members serve as advisers for pre-engineering students.

The major in mathematics provides for an optional emphasis in applied or theoretical mathematics. In selecting electives in the mathematics major the student should obtain departmental advice on sequences and electives. Students who major in mathematics are required to include computer science in their program of study. All students who major in mathematics or who major in education with mathematics as a teaching field must take an exit examination in mathematics.

The major in computer science requires several supporting courses in mathematics. The student may wish to extend these courses to a minor or a second major. Because of computer applications in science and business, students are also encouraged to broaden their background in one of these fields. All students who major in computer science or who pursue a major in the mathematics/computer science teaching field in education must take an exit examination in computer science.

The minor in mathematics must include at least 12 hours of courses numbered 200 or above.

High school graduates are strongly advised to present a minimum of three and one-half units of high school mathematics, including two in algebra, one in geometry, and one-half in advanced secondary mathematics.

The appropriate beginning course in mathematics is determined by advisory placement based on ACT (or SAT) test scores, high school preparation, and the particular program selected. Students with a Mathematics ACT score of 28 (SAT 690) or above and high school credit in Algebra I, Algebra II, Geometry, and Trigonometry may begin with Calculus I (125). Students whose chosen program of study requires calculus and who have a Mathematics ACT score of 22 (SAT 570) or above and high school credit in Algebra I, Algebra II, and Geometry may begin with Pre-calculus Algebra and Trigonometry (115), Pre-calculus Trigonometry (113), or Pre-calculus Algebra (112). Students in programs not requiring calculus and who have a Mathematics ACT score of 22 (SAT 570) or above and high school credit in Algebra I, Algebra II, and Geometry may also begin with Finite Mathematics (110). Students with a Mathematics ACT score of 16-21 (SAT 410-560) and at least one unit of high school algebra should begin with Intermediate Algebra (100) or Mathematics for Liberal Arts (105).

All students with scores of 15 or below on the ACT Mathematics Subtest (SAT 400 or below) are required to enroll in Mathematics 099, Beginning Algebra, as their first course in mathematics. Mathematics 099 is a noncredit course in elementary algebra and counts as the equivalent of three semester hours in load determination and toward the minimum load required for eligibility for financial aid, athletics, and veterans' benefits. A

grade of Satisfactory in Mathematics 099 is prerequisite to enrollment in other mathematics courses. This course may also serve as a refresher or beginning course in mathematics for other students. Students may be exempted only by approval of the Department of Mathematics and Computer Science.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN MATHEMATICS

Course	Credit
A. General Studies Component.....	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Mathematics majors must complete:	
Area III: Mathematics 113 (3) or	
Mathematics 115 (4)	
This requirement is waived for students who took high school trigonometry if their ACT math score is at least 28 (SAT 690) or if they have credit in MA 125.	
Area V: Additional Requirements	23
Mathematics 125 (4)	
Mathematics 126 (4)	
Mathematics 227 (4)	
11 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.	
	—
	64

For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.

B. Major Core Requirements:	
*Calculus I (125)	4
*Calculus II (126)	4
*Calculus III (227)	4
*Applied Differential Equations I (238)	3
Introduction to Discrete Mathematics (245)	3
Applied Statistics I (345) or Mathematical Statistics I (447)	3
Advanced Linear Algebra I (431)	3
Modern Algebra I (437)	3
Introduction to Analysis (451)	3
Applied Mathematics (MA 471W)	3
Mathematics Elective (MA 345-491)**	3
	21-36

* These courses are required if not completed as a part of the General Studies Component. ** Mathematics majors pursuing secondary certification must elect MA 421.

Course Credit

Prescribed Supporting Courses:

Computer Science I (CS 155) or FORTRAN Programming
(CS 210)3

Mathematics majors pursuing secondary certification must also take MA 425 (3) and either MA 112 and MA 113 (6) or MA 115 (4).

C. Minor:

A minor, second major, or the education/certification block as determined by the College of Education is required for the major in mathematics.

D. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN COMPUTER SCIENCE

Course	Credit
A. General Studies Component.....	41

For general studies requirements and additional requirements for UNA students, refer to *Academic Procedures and Requirements*.

Computer Science majors must complete:

Area III: Mathematics 112 or higher(3-4) Two-course
sequence in a natural

science laboratory course (8)

Area V: Additional Requirements 23

Computer Science 155 (3)

(or CIS 251 from Alabama Community Colleges)

Mathematics 113 (3)

This requirement is waived for students who took high school trigonometry if their ACT math score is at least 28 (SAT 690) or if they have credit in MA 125. Mathematics

125 (4)

Mathematics 126 (4)

9-12 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.

For the Bachelor of Arts degree the student must satisfy the following⁶⁴
requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.

B. Major Core Requirements:

*Computer Science I (155): 3
Introduction to Discrete Structures (245) 3

*This course is required if not completed as a part of the General Studies Component.

Course	Credit
Computer Science II (255)	3
Computer Organization and Assembly Language Programming (310) . .	3
Computer Architecture (311)	3
Data Structures and Algorithms (355)	3
Computer Networking (360)	3
Programming Languages (410W)	3
Operating Systems (420)	3
Automata Theory and Compiler Construction (421)	3
Theory and Applications of Database Systems (447)	3
Software Engineering (455)	3
Artificial Intelligence (470)	3
Computer Science Electives:	
CS 315 or CS 325 or CS 335 or CS 390	
.....	3
— 42 C. Prescribed Supporting Courses:	
*Calculus I (125)	4
*Calculus II (126)	4
Applied Statistics (345)	3
Advanced Linear Algebra (431)	3
	6-14

D. No minor is required for Computer Science majors.

E. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A MINOR IN MATHEMATICS

Course	Credit
Calculus I (125)	4
Calculus II (126)	4
Calculus III (227)	4
Applied Differential Equations I (238)	3
Mathematics Electives (300-400 level)	
.....	6
— Total	21

REQUIREMENTS FOR A MINOR IN COMPUTER SCIENCE

Course	Credit
Computer Science I (155)	3
Computer Science II (255)	3
Computer Organization and Assembly Language Programming (310) . .	3
Data Structures and Algorithms (355)	3

*These courses are required if not completed as a part of the General Studies Component.

Language Course (315 or 325 or 335 or 390)	3
Computer Science Electives (300-400 level)	
.....	6_
— Total	21

DEPARTMENT OF MILITARY SCIENCE

Chair: Lieutenant Colonel Michael D. Fennell, 136 Wesleyan Annex, 7654271

Faculty: Lieutenant Colonel Atencio, Major Davis

Enlisted Personnel: MSG McClelland, MSG Gilmer, SSG McCaa

The Department of Military Science offers a program of leadership study in the U. S. Army Senior ROTC Program through which students may earn a commission as a second lieutenant in the United States Army, the Army National Guard, or the Army Reserve upon graduation. The program consists of a two-year Basic Course Program and a two-year Advanced Course Program. Credit for the Basic Course Program may be accomplished by completion of the Leader's Training Course (a summer internship) prior to enrollment in the Advanced Course Program. Students with prior military training who wish to enroll in the Advanced Course may have part or all of the Basic Course requirements waived by the professor of military science. Nursing students who have not completed the Basic Course Program may enter the Advanced Program via the Alternate Entry Option. Advanced Course students must complete university requirements and United States Military History (HI 474) prior to commissioning.

The department provides the basic ROTC coursework for a minor in military science and up to four hours of elective credit in Area V requirements in the general studies component. Enrollment in the Basic Course Program does not commit the student to continue in the ROTC program.

Students selected for the advanced course learn leadership and decision-making skills. They may elect to pursue a minor in military science in satisfaction of requirements for a minor field in regular degree (non-teaching) programs. Up to four credit hours of the Basic Course requirements for the minor (MS 111, 112, 211, 212) may be granted by virtue of prior military training or completion of the Leader's Training Course (a summer internship).

In appropriate circumstances and subject to the approval of the chair of the department, students may be permitted to compress the courses MS I and II through concurrent enrollment. The compression of leadership laboratories through concurrent enrollment will be supplemented by additional instruction.

QUALIFICATIONS FOR ADVANCED COURSE

The requirements for entrance to the advanced course are as follows: 1.

Be a citizen of the United States.

2. Successfully pass the prescribed physical examination.

3. Successfully complete such survey and general screening tests as may be presented.

4. Be able to qualify for a commission prior to the age of 30.
5. Have at least two academic years to complete for graduation.
6. Be approved by the Professor of Military Science.
7. Execute a written agreement with the government to complete the two-year advanced course training and to attend Leader Development and Assessment Course internship (five weeks' duration) preferably at the end of the first year of the advanced course, and to accept a reserve commission if tendered.
8. Have completed two years basic ROTC training, Leader's Training Course internship, or have prior military service.
9. Have and maintain a minimum GPA of 2.0 (based on a 4.0 scale).
10. Have junior academic standing (64 hours). Graduate students, or students seeking additional degrees, may also qualify.

PAYMENT AND ALLOWANCES

Advanced course students receive a monthly allowance of not less than \$250 from ROTC.

When attending the Leader Development and Assessment Course or Leader's Training Course, the student is paid at the same rate as a United States Military Academy cadet and receives transportation reimbursement. Uniforms, housing, and food are furnished by the government during the summer internship period.

SIMULTANEOUS MEMBERSHIP PROGRAM

The Simultaneous Membership Program (SMP) allows qualified students the opportunity to participate in the ROTC Advanced Program and the Army National Guard or Army Reserve simultaneously. SMP participants receive a monthly stipend from ROTC, Sergeant (E-5) pay for attending monthly Guard or Reserve training assemblies, and GI Bill benefits upon completion of eligibility requirements.

ROTC SCHOLARSHIP

ROTC scholarships are awarded under the provisions of Public Law 88647. These scholarships provide for books, tuition and laboratory fees, and payment of a monthly stipend allowance, not to exceed 10 months per year, or 40 months for four-year scholarships. Subsistence allowance is not paid during the time cadets are attending summer camp. Scholarships are for a minimum of two years and a maximum of four years. Applications for four-year scholarships must be forwarded to Headquarters, U. S. Army Cadet Command, Fort Monroe, Virginia 23651. It is recommended that applications be submitted by January 31 of the year in which the student is to graduate from high school. Applications for two- and three-year scholarships must be filed with the professor of military science during the student's first or second year in college. For complete scholarship information contact www.unarotc.com or armyrotc.com.

DISTINGUISHED MILITARY STUDENTS AND DISTINGUISHED MILITARY GRADUATES

The Professor of Military Science may designate as distinguished military students persons who

1. possess outstanding qualities of military leadership, high moral character, and definite aptitude for military service;
2. have attained a military science standing in the upper third of their ROTC class;
3. have attained an overall academic standing in the upper half of their university class;
4. have demonstrated initiative and leadership capacities through participation and achievements in campus and civic activities.

The Army may designate as distinguished military graduates persons who

1. are distinguished military students;
2. have completed the advanced course, senior division, ROTC;
3. have been graduated from college with a baccalaureate degree; and 4. have maintained to the date of graduation from college the high standards required for designation as distinguished military students.

UNIFORMS

Designated ROTC students obtain the prescribed uniform from the Department of Military Science. The uniform is the property of the United States Government and is lent to the student for wear at such times as the Professor of Military Science may direct. It must be returned to the department when called for or when the student withdraws from or completes the course in which enrolled.

REQUIREMENTS FOR A MINOR IN MILITARY SCIENCE

Course	Credit
Basic Course (MS 111, MS 112, MS 211, MS 212)	0-4*
Advanced Course (MS 311, MS 312, MS 411, MS 412)	12
History, United States Military History (474) 3 Social Science Elective (Select one)	
Geography/Political Science 402	
History/Political Science 477	
Military Science 313	
Political Science 431	
Political Science 433	
Political Science 481	3 —
	—
Total	18-22

*Up to four credit hours may be granted for prior military training or completion of Leader's Training Course.

DEPARTMENT OF MUSIC

Chair: Dr. James K. Simpson, 142 Music Building, 765-4361

Faculty: Dr. Cai, Mr. Elsey, Mr. Flowers, Dr. Garfrerick, Mr. Jones, Dr. Lee, Dr. Loeppky, Mrs. Malone, Dr. Moore, Mr. Moyer, Mr. Weimann

The University of North Alabama is an accredited institutional member of the National Association of Schools of Music.

The Department of Music offers options in commercial music, sacred music, and performance leading to the Bachelor of Arts in Music or the Bachelor of Science in Music degree; and majors in instrumental music P-12 and vocal/choral music P-12 leading to the Bachelor of Music in Music Education degree. The department also offers a minor in music and coursework which is applicable to the general studies component in all programs.

Programs in the Department of Music are designed

- 1. for students who wish to pursue personal or professional interests in their applied area or to help them prepare for advanced study in graduate school. (Bachelor of Arts in Music and Bachelor of Science in Music degree)*
- 2. for students who desire to enter the teaching profession through preparation in their chosen area of specialization-vocal/choral music P-12 or instrumental music P-12. (Bachelor of Music in Music Education degree)*
- 3. for students who wish to pursue a career in the music industry. The option in commercial music is designed to permit students to specialize in coursework with direct application to the music industry and recording technology. (Bachelor of Arts in Music and Bachelor of Science in Music degree)*
- 4. for students who wish to pursue a career in sacred music. The option in sacred music is designed to provide students with the knowledge and skills to work with choral groups in churches and to provide a basic foundation for graduate work. (Bachelor of Arts in Music and Bachelor of Science in Music degree)*
- 5. for the general student through offerings in fundamental music courses, performing ensembles, and applied music.*
- 6. to provide a minor field of concentration in the College of Arts and Sciences. The minor in music, in addition to specific course requirements, also requires demonstration of reasonable proficiency in music performance, reasonable competence in musical understanding, and ensemble participation. (Music programs should be planned in consultation with the chair of the department.)*

**All students majoring or minoring in music will be given a theory and aural skills placement examination prior to their acceptance into the music program. The results of this examination will be used to determine the appropriate theory course for credit or audit.*

**This includes transfer students.*

All applied music courses are numbered from the 100- to the 400-level with each successive level representing a higher level of competency. Syllabi are on file for each level of competency.

Sacred Music (Option II), Performance (Option III), and music education majors are required to participate in a major performing ensemble (University Band, Collegiate Singers, University Chorale) in the student's area of specialization each semester of enrollment at the University as fulltime students. Students are not required to participate during the term in which they are enrolled in student teaching.

All music majors are required to take a sophomore examination which includes proficiency in piano and performance on the student's major applied instrument. To satisfy these requirements, students must:

1. a. complete the minimum course requirements in piano by the end of their sophomore year, and
b. demonstrate proficiency in piano before the music faculty.
2. be currently enrolled in the 200-level in applied music and, with the approval of their instructor, perform on their major applied instrument before the music faculty.

The faculty will advise the student at that time concerning continuation in the music program.

Students with majors in music as a teaching field for education certification, or options in commercial music, sacred music and performance are required to take exit examinations for graduation.

Students with an option in commercial music, a minor in music, and other majors may take a one-credit-hour lesson each semester unless they have obtained prior approval from their applied instructor to take additional hours. Music education, sacred music (Option II), and performance (Option III) majors are expected to take a two-credit-hour lesson each semester until they have completed the requirements for Senior Recital (MU 419).

Performance (Option III) and music education majors are required to give a senior year demonstration of proficiency in the student's chosen area or areas of music performance by one of the following means: an individual public recital or a joint public recital with another student. Students must be enrolled in applied music during the semester of their senior recital. Music education majors must complete their MU 419 recital requirement prior to their student internship.*

Special fees are charged for work in Applied Music (individual instruction). For organ, piano, voice, and orchestral or band instruments, the fee is \$60.00 per credit hour which provides for one half-hour lesson per week in a semester and one one-hour lesson per week in a summer term. Where such instruction may be approved for groups of four the fee is \$30.00 per credit hour. No special fees are charged for recordings, materials, or for using university-owned instruments in the university band. Some special financial aids are available for eligible students who play in the university band or serve as accompanists (see "Expenses" and "Student Financial Services"). Financial Aid may also be available for students in chorus, piano, strings and voice.

*Performance and music education majors may be asked to have a pre-recital review.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN MUSIC

Course	Credit
A. General Studies Component	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> . Music majors must complete:	
Area V: Additional Requirements (see requirements by option)	—
	64
For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.	
B. Major Core Requirements:	
*Music Theory (201, 202)	6
*Sight Singing and Ear Training (220, 221)	2
Advanced Music Theory (301, 302)	6
History of Music I and II (345W, 346)	6
Orchestration (361)	2
Instrumental (383) or Choral Conducting (384)	2
	—
	24

All music majors, except commercial music majors, must have eight semester hours of ensembles, of which at least three hours must be upper level (300-400 level large performing ensembles, i.e. band, orchestra, or chorus appropriate to their performance major) and two hours must be performing ensembles other than the band, orchestra, and chorus including, but not limited to, chamber music, chamber singers, jazz ensembles, string ensemble, and other smaller performing groups that may be organized on a permanent or ad hoc basis. Keyboard majors substitute accompanying for this one-hour requirement. Sacred Music majors substitute one hour of practicum for one hour of ensemble. Commercial Music majors are required to take five credit hours of ensembles plus practicum hours.

C. Option I: Commercial Music

Music majors must complete:

Area V: Additional Requirements	23
Music Theory (201, 202)	(6)
Sight Singing And Ear Training (220, 221)	(2)
University Band (105, 205) or University Chorale (107, 207) or Collegiate Singers (110, 210) or Additional Applied Studio Courses	(4)

*These courses are required in the major if not completed as a part of the General Studies

Component.

Course	Credit
Remaining hours from among any approved Arts and Sciences Area V elective courses or any UNA elective course to bring the total to 23 hours.	
Survey of the Music Industry (ENT 225).....	3
Songwriting and Analysis (ENT 300) or Recording Techniques (ENT 425).....	3
Music Publishing (ENT 325)	3
Record Company Operations (ENT 329)	3
Survey of Audio Recording (ENT 335)	3
Production (ENT 426) or Music Technology and Midi (ENT 430)	3
History of Recorded Music (ENT 435)	3
*Music Practicum (ENT 495)	3
Class and/or Applied Music	7
Music Electives (300-400 level)	4
University Band (105, 205, 305, 405) or University Chorale (107, 207, 307, 407) or Collegiate Singers (110, 210, 310, 410) . . .	5
	<hr/>
	40
Prescribed Supporting Courses:	
Accounting Concepts I (AC 291)	3
The Legal Environment of Business (BL 240)	3
Business Applications of Microcomputer Software (CIS 125), recommended or Introduction to Computers (CS 110).....	3
**Principles of Macroeconomics (EC 251)	3
Entertainment Industry Law (ENT 470)	3
Elementary Statistics (MA 147) or Applied Statistics (MA 345)	3
Principles of Management (MG 330)	3
International Business (MG 491)	3
Marketing (MK 360)	3
**Introductory Physics (PH 121)	4
Audio Electronics (PH 347)	3
	<hr/>
	27-34
or	
Prescribed Supporting Courses: (3-6 hours) CS 110 or CIS 125 ENT 470 (<i>not required for Broadcast Journalism, Journalism, and Radio-Television-Film minors</i>)	
AND	
Select one of six minors in the Department of Communications and Theatre: Broadcast Journalism (18 hours) Journalism (18 hours)	

Public Communication (19 hours)
Public Relations (18 hours) Radio-
Television-Film (18-19 hours) Theatre
(18 hours)

*Students electing Option I (commercial music) must have completed all other commercial music area courses and at least 100 semester hours toward the BAM/BSM degree (commercial music option), and have departmental approval, before participating in a commercial music practicum/ internship experience.

**These courses are required in the major if not completed as a part of the General Studies Component.

Course	Credit
C. Option II: Sacred Music	
Music majors must complete	
Area V: Additional Requirements	23
Music Theory (201, 202)	6
Sight Singing and Ear Training (220, 221)	2
Applied Music (100, 200 level)	5
University Band (105, 205) or	
University Chorale (107, 207) or	
Collegiate Singers (110, 210) or	
Additional Applied Studio Courses	4
Remaining hours from among any approved Arts and	
Sciences Area V elective courses or any UNA elective	
course to bring the total to 23 hours.	
Form and Analysis (363)	3
Sacred Music Administration/Arranging/Literature (390)	5
Instrumental Techniques (393)	2
Choral Techniques (394)	2
Vocal Science (397)	2
Music Practicum (495)	3
	<hr/>
	17
Major Applied Instrument	12
(six hours of voice with the remaining six hours in a secondary	
area with at least four hours at the (300-400 level)	
Ensemble	
Large	6

Choose from among University Band, University Chorale,
 Collegiate Singers, University Orchestra (with at least three hours
 at the 300-400 level)

Small1

Choose any ensemble other than those listed above.

—
 19

Prescribed Supporting Courses:

Accounting Concepts (AC 291)3
 Business Applications of Microcomputer Software (CIS 125) or

Introduction to Computers (CS 110)3

Principles of Management (MG 330)3
 Abnormal Psychology (PY 302) or

Physiological Psychology (PY 361) 3—

12

Electives (at least six hours at the 300-400 level) 15

Course

Credit

C. Option III: Performance

Music majors must complete:

Area V: Additional Requirements	23
Music Theory [201, 202]	(6)
Sight Singing and Ear Training [220, 221]	(2)
Applied Music [100, 200 level]	(5)
University Band [105, 205] or	
University Chorale [107, 207] or	
Collegiate Singers [110, 210] or	
Additional Applied Studio Courses	(4)
Remaining hours from among any approved Arts and	
Sciences Area V elective courses or any UNA elective	
course to bring the total to 23 hours.	

(Choose Emphasis 1, 2, or 3)

1. Emphasis in Instrumental Music:

Applied Brass [114, 214, 314(4), 414(2)] or	
Applied Percussion [115, 215, 315(4), 415(2)] or	
Applied Strings [116, 216, 316(4), 416(2)] or	
Applied Woodwinds [117, 217, 317(4), 417(2)]	16
Form and Analysis (363)	3
Instrumental Literature and Pedagogy (392)	2
Small Ensemble	1
Music Electives (300-400 level)	9
Senior Recital (419)	2 University
four hours at the 300-400 level)	8 –
	41
Prescribed Supporting Courses: (For Emphasis 1, 2 or 3)	
Business Applications of Microcomputer Software (CIS 125),	
recommended or Introduction to Computers (CS 110).....	3
Entertainment Industry Law (ENT 470)	3
Principles of Management (MG 330) or	
Promotion and Advertising (MK 363)	
.....	3 –

– 9 2. Emphasis in Keyboard:

Applied Piano [112, 212, 312(4), 412(2)] or	
Applied Organ [113, 213, 313(4), 413(2)]	16
Form and Analysis (363)	3
Organ Literature and Materials (442) or	
Piano Literature and Materials (445)	3
Organ Pedagogy (443) or Piano Pedagogy (446)	3
Class Accompanying (134) piano emphasis only	1
Music Electives (300-400 level)	5
Senior Recital (419)	
.....	2
University Chorale (107, 207, 307, 407) or Collegiate Singers	
(110, 210, 310, 410) with at least four hours at 300-400 level	8
	<u>40-41</u>

Course	Credit
Prescribed Supporting Courses: (For Emphasis 1, 2 or 3) Business Applications of Microcomputer Software (CIS 125), recommended or Introduction to Computers (CS 110)	3
Entertainment Industry Law (ENT 470) Principles of Management (MG 330) or Promotion and Advertising (MK 363)	3
.....	3
— 9 3. Emphasis in Voice:	
Opera/Music Theater Workshop [108, 208, 308(1), 408(1)]	4
Applied Voice [111, 211, 311(4), 411(2)]	16
Form and Analysis (363)	3
Vocal Diction I and II (395, 396)	4
Vocal Science and Vocal Literature (397, 398)	4
Music Electives (300-400 level)	2
Senior Recital (419) 2 University Chorale (107, 207, 307, 407) or Collegiate Singers (110, 210, 310, 410) with at least four hours at the 300-400 level	8 — 43
Prescribed Supporting Courses: (For Emphasis 1, 2 or 3) Business Applications of Microcomputer Software (CIS 125), recommended or Introduction to Computers (CS 110)	3
Entertainment Industry Law (ENT 470) Principles of Management (MG 330) or Promotion and Advertising (MK 363)	3
.....	3
— 9 D. Minor:	

A minor is not required for Options I, II or III.

E. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A MINOR IN MUSIC	
Course	Credit
Musical Activities	3
Music Theory (201, 202)	6
History of Music (345, 346)	6
Class and Applied Music	2
Music Electives (300-400 level)	<u>6</u> —
Total	23

DEPARTMENT OF PHYSICS AND EARTH SCIENCE

Chair: Dr. Anthony Blose, 207 Floyd Hall, 765-4334

Faculty: Dr. Canis, Dr. Dolmatov, Dr. Elliott, Dr. Statom, Dr. Thompson

The Department of Physics and Earth Science offers major programs in physics and in geology. These programs lead to the Bachelor of Arts or the Bachelor of Science degree. The physics program has two options, Professional Physics and General Physics. The geology program also has two options, Professional Geology and General Geology. The department offers minor programs in physics, geology, and earth science, supporting coursework for other major and preprofessional programs, and coursework applicable to the physical science requirements in the general studies component in all programs. The department also provides the subject field preparation in physics and in areas of general science for secondary school teachers.

The Professional Physics option of the physics major is designed especially for students who anticipate pursuing further studies in physics beyond the bachelor's degree. It is a rigorous program that aims at preparing the student to meet the challenges of graduate studies in physics.

The General Physics option of the physics major is designed for students who anticipate seeking employment after receiving the bachelor's degree or who intend to pursue graduate studies in a field other than physics. This option provides a more flexible program, which may be tailored to better suit the particular needs and goals of individual students.

In selecting electives in the physics major, the student should consult with the chair of the department for advisement. The required Directed Research project (PH 495) will be chosen so as to complement the student's program and goals.

The Professional Geology option of the geology major is designed for students who anticipate further studies in geology beyond the bachelor's degree and for those who anticipate entering the job market upon graduation. Either geology major is flexible enough to allow emphasis in environmental geology, the minerals industry, or remote sensing and geographic information systems (GIS).

The General Geology option of the geology major would especially supplement a major in geography, physics, or chemistry in developing marketable skills. The minor in earth science forms a broad base which would supplement a biology, geography, or physics major in any environmental program.

Students with a major concentration in professional physics, general physics, professional geology or general geology and those who choose physics as a teaching field for education certification are required to take exit examinations for graduation.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF
SCIENCE DEGREE WITH A MAJOR IN PHYSICS

Course	Credit
A. General Studies Component.....	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Area V: Additional Requirements	23
23 hours from among any course listed in Arts	
and Sciences Area V elective courses or any	
UNA elective course to bring total to 23 hours.	—
	64
For the Bachelor of Arts degree the student must satisfy the follow	
ing requirement: 6 hours of a required foreign language at the inter-	
mediate level. The student may elect to count up to 6 hours of foreign	
language at the intermediate level (201, 202) towards the 23 hours in	
this area.	
B. Major Core Requirements:	
*Technical Physics I, II (PH 251, 252)	10
Modern Physics (PH 343)	4
	4 14
C. Option I: Professional Physics	
**Intermediate Laboratory (PH 356W)	4
Quantum Mechanics (PH 444)	3
Electricity and Magnetism (PH 447)	3
Electromagnetic Fields (PH 448)	3
Statistical Mechanics (PH 456)	3
Mechanics I, II (PH 471, 472)	6
Topics in Physics (PH 480-489)	3
Directed Research (PH 495)	2
3 hours chosen from the following:	
Topics in Physics (PH 480-489)	3

Directed Research (PH 495)	3	30
Prescribed Supporting Courses:		

*Mathematics, Calculus I, II (MA 125, 126, 227)	11
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Applied Differential Equations I (MA 238)	3	14
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Option II: General Physics

**Intermediate Laboratory (PH 356W)	4
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Electricity and Magnetism (PH 447)	3
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Mechanics I (PH 471)	3
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Directed Research (PH 495)	2
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Physics Electives (300-400 level)	12
	24

Prescribed Supporting Courses:

*Mathematics, Calculus I, II (MA 125, 126, 227)	11
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Applied Differential Equations I (MA 238)	3	14
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*These courses are required in the major if not completed as a part of the General Studies Component.

**Fulfills computer literacy requirement.

Course	Credit
*Option III: General Science	
Principles of Biology (BI 111)	4
Principles of Biology (BI 112)	4
Cell Biology (BI 305)	4
Genetics (BI 306)	4
General Chemistry (CH 111) and Laboratory (CH 111L)	4
General Chemistry (CH 112) and Laboratory (CH 112L)	4
Organic Chemistry (CH 311) and Laboratory (CH 311L)	5
One course with accompanying lab from Quantitative Analysis (CH 321) Instrumental Analysis (CH 322), or Applied Physical Chemistry (CH 341)	4-5
Computer Science (CS 110) or higher	3
Earth Science (ES 131)	4
Earth Science (ES 132)	4
Earth Science (ES 330), Earth Science (ES 345), Earth Science (ES 375), Earth Science (ES 421W**), Earth Science (ES 431) and Laboratory (ES 431L) or Earth Science (ES 441)	4 One course from among:
Calculus I (MA 125)	3-4
Calculus II (MA 126)	4
Technical Physics I (PH 251)	4
Technical Physics II (PH 252)	5
Modern Physics (PH 343)	5
	4
	<hr/> 69-71
One course from among:	
Microbiology (BI 307)	4
Evolution (BI 312)	3
Ecology (BI 421)	4
Organic Chemistry (CH 312) and Laboratory (CH 312L**)	4
Mineralogy (ES 245)	4
Astronomy (PH 125)	4
Intermediate Laboratory (PH 356W**)	4
D. Minor:	3-4

A minor is not required for Option I.

A minor or second major is required for Option II.

E. General Elective hours, if required, to bring total in each option to 128.

*Option III requires a second major in an approved area.

**One course with a "W" designation (such as ES 421W, PH 356W, or CH 322 and 322LW) must be chosen in order to fulfill the university's writing requirement.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN GEOLOGY

Course	Credit
A. General Studies Component.....	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Area V: Additional Requirements	23
23 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.	—
	64
For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.	
B. Major Core Requirements:	
*Physical Geology (ES 131)	4
*Historical Geology (ES 132)	4
Mineralogy (ES 245)	4
Petrology (ES 345)	4
Applied Paleontology (ES 421W)	4
Structural Geology (ES 431)	3
**Structural Geology Laboratory (ES 431L)	1
Stratigraphy and Sedimentology (ES 441)	4
Hydrogeology (ES 488)	3
	—
	22-31

C. Option I: Professional Geology

At least one course from among:

Economic Geology (ES 312)	3
Marine Geology (ES 340)	4
Technology and the Environment (ES 375)	3

Geology Field Camp (ES 482-483) 6-8 Prescribed Supporting 3-4

Courses:

*Chemistry, General Chemistry (CH 111), General Chemistry Laboratory (CH 111L), General Chemistry (CH 112), General Chemistry Laboratory (CH 112L)	8
*Mathematics, Calculus for Business and Life Sciences I (MA 121) and Calculus for Business and Life Sciences II (MA 122) or Calculus I (MA 125)	4-6
*Physics, Technical Physics I (PH 251) and Technical Physics II (PH 252)	10
	—
	0-24

*These courses are required in the major if not completed as a part of the General Studies Component.

**Fulfills computer literacy requirement.

Course	Credit
Option II: General Geology	
Geology Field Camp (ES 482-483, 6-8 hr) or one additional 300-400 level geology course (3-4) and ES 480-481 (3) or GE 495 (3) or GE 499 (3)	6-8
Prescribed Supporting Courses:	
*Chemistry (CH 111, 111L, 112, 112L recommended, or CH 101, 101L, 102, 102L)	8
Geography (GE 225, 324, 424)	9
*Physics (PH 241, 242)	8
	<hr/>
	9-25
D. Minor:	
A minor is not required for options I or II.	

E. General Elective hours, if required, to bring total in each option to 128.

REQUIREMENTS FOR A MINOR IN PHYSICS

Course	Credit
Technical Physics (251, 252)	10
Modern Physics (343)	4
Intermediate Laboratory (356)	4
Physics Electives (300-400 level)	3
	<hr/>
Total	21

REQUIREMENTS FOR A MINOR IN EARTH SCIENCE

Course	Credit
Physical Geology (ES 131)	4
Meteorology (ES 330)	3
Technology and the Environment (ES 375)	3
Descriptive Astronomy (PH 125)	4
Three additional courses from:	
* Historical Geology (ES 132)	4
** Mineralogy (ES 245)	4
Economic Geology (ES 312)	3
*** Marine Geology (ES 340)	4
Petrology (ES 345)	4
Applied Paleontology (ES 421)	4
*** Oceanography (ES 425)	4
Hydrogeology (ES 488)	3
	<hr/>
Total	23-26

* Prerequisite for ES 421.

**Prerequisite for ES 345.

***Offered only at Dauphin Island Sea Lab.

REQUIREMENTS FOR A MINOR IN GEOLOGY

Course	Credit
Physical Geology (ES 131)	4
Historical Geology (ES 132)	4
Mineralogy (ES 245)	4
Ten additional hours from:	
Economic Geology (ES 312)	3
*Marine Geology (ES 340)	4
Petrology (ES 345)	4
Applied Paleontology (ES 421)	4
*Oceanography (ES 425)	4
Structural Geology (ES 431)	3
Structural Geology Lab (ES 431L)	1
Stratigraphy and Sedimentology (ES 441)	4
Hydrogeology (ES 488)	3
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Total	23

DEPARTMENT OF PSYCHOLOGY

Chair: Dr. Charles E. Joubert, 209 Wesleyan Hall, 765-4390

Faculty: Dr. Bates, Dr. Hudiburg

The Department of Psychology offers a major program in psychology leading to the Bachelor of Arts or Bachelor of Science degree; a minor program in psychology; service coursework for the program for the preparation of secondary teachers offered through the College of Education; coursework applicable to general studies component requirements in all university programs; and a variety of courses required or recommended in other programs.

Programs in the department are designed to serve students who wish to prepare for graduate study in psychology and in related fields calling for supporting concentrations or courses in psychology.

For majors, a modern foreign language through the intermediate level and additional coursework in biology, chemistry, computer science, mathematics, and physics are strongly recommended. Prospective majors should consult with the chair of the department in the selection of advanced psychology electives.

Students with majors in psychology are required to take exit examinations for graduation.

* Offered only at Dauphin Island Sea Lab.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF
SCIENCE DEGREE WITH A MAJOR IN PSYCHOLOGY

Course	Credit
A. General Studies Component.....	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Psychology majors must complete:	
Area III: *Biology 101-102 or 111-112 (8)	
*Mathematics 112 (3)	
Area IV: *Psychology 201 (3)	
Area V: Additional Requirements	23
Mathematics 147 (3)	
20 hours from among any course listed in Arts	
and Sciences Area V elective courses or any	
UNA elective course to bring total to 23 hours.	—
	64
For the Bachelor of Arts degree the student must satisfy the follow	
ing requirement: 6 hours of a required foreign language at the inter-	
mediate level. The student may elect to count up to 6 hours of foreign	
language at the intermediate level (201, 202) towards the 23 hours in	
this area.	
B. Major Core Requirements:	
*General Psychology (201)	3
Learning (321)	3
Physiological Psychology (361)	3
Experimental Psychology (365W)	3
**Psychological Statistics (375)	3
Psychology Electives (including at least three hours 300-400 level) . .	15
	<hr/>
	27-30

C. Minor:

A minor or a second major is required for this major.

D. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A MINOR IN PSYCHOLOGY

Course	Credit
General Psychology (201)	3
Learning (321)	3
Experimental Psychology (365) or Psychological Statistics (375)	3
Psychology Electives (including at least three hours 300-400 level)	9
Total	18

*These courses are required in the major if not completed as a part of the General Studies Component.

**Fulfills computer literacy requirement.

DEPARTMENT OF SOCIAL WORK AND CRIMINAL JUSTICE

Chair: Dr. Jack R. Sellers, 543 Stevens Hall, 765-4391

Faculty: Dr. Borah, Dr. Bridgmon, Dr. Carlan, Dr. Clark, Mrs. Crisler, Dr. Stanfield, Mrs. Winston

The Department of Social Work and Criminal Justice offers autonomous major programs in social work and criminal justice. Social work and criminal justice majors are required to take an exit exam as seniors in their respective discipline. Students are to come for mandatory advisement with their assigned faculty advisor at designated times during the academic year.

The social work program is accredited by the Council on Social Work Education and offers course work leading to the Bachelor of Social Work (B.S.W.) degree. The principal educational objective of the program is to prepare students for beginning generalist social work practice. No minor is required for this program. Majors in social work should anticipate that the program requires a supervised field instruction placement with local, state, or regional social services agencies. Graduates of the B.S.W. program are qualified for employment in public and private social services agencies that provide a variety of services to diverse populations. Potential areas of employment include, but are not limited to, such areas as family and children's services, public and private social service programs, medical and psychiatric social work, rehabilitation services, legal services, corrections, juvenile court, programs for the elderly, group work, social planning and administration, social research, community development and organization, and other emerging opportunities in social work. Completion of the major prepares the student for local, state, and federal social work positions; establishes the student's eligibility to apply for advanced standing in graduate programs in social work; and qualifies the student for immediate application to become a licensed social worker in the State of Alabama and other states. The official Social Work Student Handbook contains the departmental academic guidelines to acquire the Bachelor of Social Work degree. All required general studies courses must be completed prior to enrolling in SW 305 and SW 315. All social work major coursework must be satisfactorily completed in the appropriate sequence before advancing to the next sequence of required major courses. Social work majors must earn a C or better in all social work courses.

The criminal justice program offers coursework leading to both undergraduate and graduate degrees, and a certificate for law enforcement professionals. The undergraduate program offers coursework leading to the Bachelor of Arts or Bachelor of Science degree and is designed to serve the professional and advanced educational needs of its students. The program consists of the criminal justice curriculum, general studies requirements, cognate course requirements, and general elective courses. In addition, a minor is required. Potential areas of employment include, but

are not limited to, such areas as law enforcement, corrections, juvenile justice, court administration, and other law-related and human service areas with federal, state, and local government agencies, including private organizations. The program also prepares its students for graduate study leading to teaching and research at the collegiate level or to careers requiring advanced study. The graduate program offers coursework leading to the Master of Science in Criminal Justice. The certificate program offers police-related coursework leading to the Law Enforcement Academic Certificate.

REQUIREMENTS FOR A BACHELOR OF SOCIAL WORK DEGREE

Course	Credit
A. General Studies Component.....	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Social Work majors must complete:	
Area II. Art 170 or Music 222 (3) Area	
III. Biology 101 and 102 (8)	
Math 110 (3)	
Area IV. Political Science 241 (3)	
Psychology 201 (3)	
Sociology 221 (3)	
Area V. Additional Requirements	23
Contemporary Issues in United States Politics	
- PS 242 (3)	
Current Social Problems - SO 222 (3)	
Elementary Statistics - MA 147 (3)	
Introduction to Computers - CS 110 or	
Intermediate Computer Topics - CS 120 or	
Business Applications of Microcomputer	
Software - CIS 125 (3)	
Introduction to Philosophy (PHL 201),	
Logic (PHL 202), or Ethics (PHL 205) (3)	
Principles of Macroeconomics - EC 251 (3)	
Five hours from among courses listed in Arts	
and Sciences Area V elective courses or any	
UNA elective course to bring total to 23 hours	
	<hr/>
	64
B. Major Core Requirements:	
Introduction to Social Work (SW 230)	3
Social Welfare: Policies and Services (SW 305)	3
Human Behavior and Social Environment I (SW 315)	3
Human Behavior and Social Environment II (SW 316)	3
Diversity Issues in Social Work (SW 324)	3
Methods of Social Work Practice I (SW 360W)	3
Methods of Social Work Practice II (SW 361)	3

Course	Credit
Methods of Social Work Practice III (SW 362)	3
Methods of Social Work Research (SW 370)	3
Field Instruction in Social Work I (SW 432)	6
Field Instruction in Social Work II (SW 433)	6
Social Work Elective	3 42
Prescribed Supporting Courses:	
Interpersonal Communication (COM 306)	3
Cultural Anthropology (SO 350)	3
	— 6
Select three courses (no more than two can be taken from any one department) from among the following: Group Communication (COM 330)	
Images of Women in Literature (EN 333)	
Urban Geography (GE 390)	
Human Sexuality (HED 406)	
Drugs in American Society (HED 424)	
Child Development (HES 362)	
Family Development (HES 443)	
The Young Child and Health Care (NU 413)	
Psychology of Adjustment (PY 242)	
Abnormal Psychology (PY 302)	
Medical Sociology (SO 307)	
The Community (SO 322)	

Juvenile Delinquency (SO 330)

Spanish for Professionals (SP 103)

Gerontology (SW 403)

Ethical Decision-Making in Social Work Practice (SW 415)

Services to Family and Children (SW 420)

Selected Topics (SW 491)

Global Women's Issues (WS 354)9

C. Minor:

A minor is not required for this major.

D. General Elective hours to bring total to 128.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF
SCIENCE DEGREE WITH A MAJOR IN CRIMINAL JUSTICE

Course	Credit
A. General Studies Component.....	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Criminal Justice majors must complete:	

Area IV. Psychology 201 (3)

Sociology 221 (3)

Course	Credit
Area V. Additional Requirements	23
Introduction to Criminal Justice - CJ 250	(3)
Corrections - CJ 335	(3)
Introduction to Computers - CS 110 or	
Intermediate Computer Topics - CS 120 or	
Business Applications of Microcomputer	
Software - CIS 125	(3)
U.S. Government and Politics - PS 241	(3)
11 hours from among courses listed in Arts	
and Sciences Area V elective courses or any	
UNA elective course to bring total to 23 hours	
	<hr/> 64
For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.	
B. Major Core Requirements:	
Juvenile Justice (CJ 306)	3
Police Organization and Community Relations (CJ 315)	3
Professional Ethics and Legal Liabilities (CJ 326)	3
Criminal Typologies (CJ 360)	3
Criminal Investigation (CJ 405)	3
Criminal Law (CJ 415)	3
Criminal Procedure (CJ 434)	3
Methods and Statistics in Criminal Justice (CJ 440W).....	3
Theory and Control of Crime (CJ 450)	3
Psychological Dimensions of Criminal Justice Practice (CJ 480)	3
Criminal Justice Electives	
(select three courses from among the following)	9
Domestic Violence (CJ 330)	
Community-Based Corrections (CJ 336)	
Substance Abuse (CJ 390)	
Forensic Investigation (CJ 406)	
Criminal Evidence (CJ 430)	
Internship in Criminal Justice (CJ 495)	
	<hr/> 39
Cognate Course Requirements:	
Judicial Process and Behavior (PS 344)	3 –
	<hr/> 3
Total	42
C. Minor:	
A minor is required for this major.	
D. General Elective hours, if required, to bring total to 128.	

MINOR IN CRIMINAL JUSTICE

Course	Credit
Introduction to Criminal Justice (CJ 250)	3
Corrections (CJ 335)	3
Criminal Law (CJ 415)	3
Criminal Justice Electives	9—
Total	18

REQUIREMENTS FOR A LAW ENFORCEMENT
ACADEMIC CERTIFICATE
(refer to section on SPECIAL PROGRAMS AND ACTIVITIES)

DEPARTMENT OF SOCIOLOGY

Chair: Dr. Craig T. Robertson, 558 Stevens Hall, 765-4200

Faculty: Dr. Bullard, Dr. Kersen, Dr. Takeuchi

The Department of Sociology offers an academic major leading to a Bachelor of Arts or Bachelor of Science degree. The department offers concentrations in Gerontological and Criminological studies, a Certificate in Gerontology, a minor program in sociology and coursework applicable to general studies components in all programs. Students in the College of Education may also benefit from taking sociology courses.

The Department of Sociology aims to prepare students for advanced study in graduate and professional schools leading to teaching, research, or professional positions; or for the numerous positions for which preparation in sociology, criminology and gerontology are appropriate. Sociologists find employment in many occupational settings including social service agencies, all levels of government, the justice system, health care, and personnel management. The gerontology concentration and interdisciplinary certificate program are designed to provide a broad base of knowledge and skills to advance the careers of those aiming to meet the needs of a growing elderly population. Students should consult the department chair concerning personal educational objectives, programs and career objectives. Additional information about sociology and this department are available at <http://www2.una.edu/sociology>.

Sociology majors must pursue at least one academic minor. The following academic minors are recommended: criminal justice, foreign languages, geography, international studies, management, political science, psychology and public relations. Exit examinations are required of students majoring in sociology.

REQUIREMENTS FOR A BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN SOCIOLOGY

Course	Credit
A. General Studies Component	41
For general studies requirements and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> . Sociology majors must complete:	
Area IV: Introductory Sociology (3)	
History 101 and 102 or History 201 and 202 (6)	
Select one course from the following:	
EC 251, EC 252, ED 299, GE 102, GE 260, PS 241, PY 201 (3)	
Area V: Additional Requirements.....	23
Sociology 223 (3)	
20 hours from among any course listed in Arts and Sciences Area V elective courses or any UNA elective course to bring total to 23 hours.	—
	64

For the Bachelor of Arts degree the student must satisfy the following requirement: 6 hours of a required foreign language at the intermediate level. The student may elect to count up to 6 hours of foreign language at the intermediate level (201, 202) towards the 23 hours in this area.

B. Major Core Requirements:	
*Introductory Sociology (SO 221)	3
Current Social Problems (SO 222)	3
Methods of Social Research (SO 310W)	3
History of Social Thought (SO 423)	3
Modern Sociological Theory (SO 428)	3
Sociology Electives	15
	—

Prescribed Supporting Course:

Introduction to Computers (CS 110) or Business Applications of Microcomputer Software (CIS 125) or Intermediate Computer Topics (CS 120)	3
	—

C. Minor:

A minor or second major is required for this major.

D. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FOR A CONCENTRATION IN GERONTOLOGY

Course	Credit
Medical Sociology (SO 307)	3

*This course is required in the major if not completed as a part of the General Studies Component.

Aging and Society (SO 308)	3
Death and Dying (SO 309)	3
Gerontology (SO 403)	3—
Total	12

REQUIREMENTS FOR A CONCENTRATION IN CRIMINOLOGY

Course	Credit
Criminology (SO 323)	3
Juvenile Delinquency (SO 330).....	3
Theories of Deviance (SO 400)	3
Law and Society (SO 430) or Social Psychology (SO 442)	3—
Total	12

REQUIREMENTS FOR A MINOR IN SOCIOLOGY

Course	Credit
Introductory Sociology (SO 221)	3
Current Social Problems (SO 222)	3
History of Social Thought (SO 423)	3
Sociology Electives (including nine hours of 300-400 level)	12—
Total	21

REQUIREMENTS FOR THE CERTIFICATE IN GERONTOLOGY

(refer to section on SPECIAL PROGRAMS AND ACTIVITIES)

PHILOSOPHY AND RELIGION

Scholarly coursework in philosophy and religion are offered each semester for students wishing to become acquainted with the beliefs, questions, and methods of one or more philosophical or religious traditions.

A minor program in religion and philosophy is offered by the Department of History and Political Science.

WOMEN'S STUDIES (WS)

A minor program in women's studies is administered jointly by the Department of English and Department of History and Political Science.

Women's studies is an interdisciplinary program that places women at the center of inquiry encouraging students to examine and critique the experiences of women and the assumptions about women's lives. The program also highlights the contributions of women in all fields of study.

REQUIREMENTS FOR A MINOR IN WOMEN'S STUDIES

Students will complete eighteen hours in women's studies including WS 100, Introduction to Women's Studies, and WS 495, Senior Seminar in Women's Achievement and Theory. At least six hours of the twelve hours of women's studies electives must be taken outside of the student's major.

Course	Credit
Introduction to Women's Studies (100)	3
Senior Seminar in Women's Achievement and Theory (495)	3
Women's Studies Electives	<u>12</u> –
Total	18

PREPROFESSIONAL PROGRAMS

The University offers extended opportunities for students to prepare for professions requiring the added specialized preparation of the professional school. Admission to the professional school for some fields requires or gives preference to applicants who already have earned the bachelor's degree; for other fields the University can provide from one to three years of the preparation required for admission or transfer to the professional school. In select programs students may earn the bachelor's degree from this University on three years' preprofessional work and satisfactory completion of the first year of professional school. Students should recognize that admission to professional schools is based on qualitative standards as well as curricular requirements and remains the prerogative of the particular school.

Students interested in preprofessional programs should seek detailed information, recommended courses of study, and continued program guidance from the advisory sources indicated in the following descriptions:

Agriculture and Forestry. Students interested in such fields as agricultural education, animal or poultry husbandry, dairying, farm management, horticulture, forestry, and related fields may obtain from one to two years of the basic coursework at this University before transferring to the school offering a degree program in the field. Interested students should contact the Office of the Dean of the College of Arts and Sciences.

Architecture. Students interested in studying architecture may obtain up to two years of basic coursework at the University before transferring to a school offering a degree program in architecture. Architecture is a profession combining both rational and intuitive thinking skills. As such, a student should exhibit abilities to understand and appreciate technical knowledge, social insight, and the discipline of artistic creativity. Interested students should contact the Office of the Dean of the College of Arts and Sciences for program information.

FRESHMAN YEAR

First Semester				Second Semester			
Course	Credit	Course	Credit				
Art 221	3	Art 222	3				
Art 231	3	Art 232	3				
English 111	3	English 112	3				
History 101	3	History 102	3				
Elective	3	Math 125	4				
UNA 101							

1 ____

SOPHOMORE YEAR

First Semester				Second Semester			
Course	Credit	Course	Credit	Course	Credit	Course	Credit
Art 281	3	Art 282	3				
Art 323	3	Art 481	3				
Economics 251	3	English 232	3				
English 231	3	Physics 242	4				
Physics 241	4	Psychology 201	3				

16

16

Engineering. Program requirements vary among the professional schools of engineering and among the fields of engineering. At this University students may complete from one to two years of the preengineering coursework common to most professional schools.

Certain courses are common to most, particularly in the first year's work. Through the program outlined below students may complete from one to two years of pre-engineering coursework at the University of North Alabama before transferring to the professional school. The choice of professional school and particular field of engineering will determine the appropriate options in the program and the most appropriate time for transfer. Consequently, students should seek continuing advisement prior to registration each term. Students not qualified for the appropriate beginning level in mathematics must expect to spend more time in satisfying basic requirements.

The University of Alabama Cooperative Education Office offers assistance to prospective transfer students in engineering while at this University. This assistance is in the form of work placement, program guidance, and continuity in transferring between universities in the student's cooperative work/study arrangement. Students should contact the Office of the Dean of the College of Arts and Sciences for program information.

FRESHMAN YEAR

First Semester		Second Semester	
Course	Credit	Course	Credit
Chemistry 111-111 L	4	Chemistry 112-112L	4
English 111	3	English 112	3
History 101	3	History 102	3
*Mathematics 125	4	Mathematics 126	4
**Elective	3	**Elective	3
17		17	

SOPHOMORE YEAR

First Semester		Second Semester	
Course	Credit	Course	Credit
***Computer Science 155	3	Computer Science 210	3
English 231	3	Mathematics 238	3
Mathematics 227	4	Physics 252	5
Physics 251	3	Elective	3
**Elective	3	""Elective	3
16		17	

*Students not eligible for Mathematics 125 follow the appropriate sequences beginning with Mathematics 112 and/or 113 or 115.

**To be chosen from EC 251, EN 232, GE 102, PS 241, PY 201, SO 221.

***Students not eligible for Computer Science 155 should take Computer Science 110 or 120.

Health and Allied Health Professions. The University provides a special Health Professions Advisory Committee to oversee and to advise students interested in programs in these fields. For advisers in specific areas, see the Dean of the College of Arts and Sciences.

1. *Medicine, Dentistry, Optometry, and Podiatry.* Most professional schools in these fields require a bachelor's degree for admission, and even schools permitting early admission give preference to applicants with four years of preparatory college work. The common general requirements for admission to schools in each field are listed below. However, the requirements may vary somewhat depending upon the specific school. Suitable major areas include the social and behavior sciences, humanities, and biological and physical sciences. In addition to required coursework, admission to a health professions school requires high scholastic achievement and acceptable scores on the appropriate admissions test. Students interested in these fields should make early contact with the preprofessional adviser for assistance in scheduling the appropriate coursework and admissions test and for information regarding application to the professional schools.

Medicine, Dentistry and Podiatry

<i>Required Course</i>	<i>Semesters</i>	<i>UNA Equivalent</i>
<i>English</i>	2	<i>EN111,112or121,122</i>
<i>General Biology or Zoology</i>	2	<i>BI 111, 112</i>
<i>General Chemistry (with lab)</i>	2	<i>CH111,111L,112,112L</i>
<i>Organic Chemistry (with lab)</i>	2	<i>CH311,311L,312,312L</i>
<i>Physics (with lab)</i>	2	<i>PH 241, 242 or 251, 252</i>
<i>College Mathematics</i>	2	<i>Choose from among MA 112,</i>
		<i>113 115 121 122 125 126*</i>

Optometry

<i>Required Course</i>	<i>Semesters</i>	<i>UNA Equivalent</i>
<i>General Biology or Zoology</i>	2	<i>BI 111, 112</i>
<i>General Chemistry (with lab)</i>	2	<i>CH111,111L,112,112L</i>
<i>Organic Chemistry (with lab)</i>	1	<i>CH 311, 311 L</i>
<i>Physics (with lab)</i>	2	<i>PH 241, 242 or 251, 252</i>
<i>Calculus</i>	1	<i>MA 121 or 125</i>
<i>Statistics</i>	1	<i>MA 147 or 345</i>
<i>English</i>	2	<i>EN111,112or121,122</i>
<i>Psychology</i>	2	<i>PY 201 and one other</i>
		<i>300-400 level course</i>
<i>Social and Behavior Science</i>	2	<i>Choose from among courses in</i>
		<i>HI, SO, EC, PS or additional PY</i>
<i>Microbiology</i>	1	<i>BI 307</i>

* Work with the adviser in selecting the appropriate math courses. Calculus is recommended by many medical schools.

2. **Physician Assistant.** Requirements for admission to a physician assistant program vary among professional schools. Both bachelor's and master's degree programs are available. Students interested in this field should contact the preprofessional adviser at this University and consult the catalog of the school offering the physician assistant program. No specific major is usually required. The following courses are usually required before acceptance into a physician assistant program. These courses may be taken as part of your undergraduate degree program or in addition to it.

Required Course	Semesters	UNA Equivalent
English	2	EN 111, 112 or 121, 122
Biology	5	BI 111, 112, 141, 142, 307
General Chemistry	2	CH 111, 111L, 112, 112L
Organic Chemistry	1	CH 311, 311L
Mathematics	1	Choose from among MA 112, 113, 115, 121, or 125
Statistics	1	MA 147 or 345
Psychology	2	PY 201 and one other 300-400 level course

3. **Pharmacy.** Students who plan to pursue a program to meet requirements for admission to a school of pharmacy can do so at this University. Although early admission after three years of prepharmacy preparation at this university is possible, applicants with a baccalaureate degree are given preference. The baccalaureate degree is required for application to those schools offering only a Doctor of Pharmacy degree program. Prepharmacy students may major in biology with a chemistry minor or major in chemistry with a biology minor. In addition to the required coursework, admission to a school of pharmacy requires high scholastic achievement and acceptable scores on the appropriate admission test. Since each pharmacy school may require different supporting coursework, students interested in this field should make contact with the prepharmacy adviser for assistance in scheduling the appropriate coursework and for information regarding other application requirements.

Major and minor: Biology major, chemistry minor; or chemistry major, biology minor

Required Course	Semesters	UNA Equivalent
Introduction to Computers	1	CS 110
Human Anatomy & Physiology	2	BI 141, 142
Calculus	2	MA 121, 122
Physics (with lab)	2	PH 241, 242 or 251, 252
Philosophy	1	PHL 205

4. **Veterinary Medicine.** Students who plan to pursue a program to meet requirements for admission to a school of veterinary medicine can do so at this University. Although early admission is possible, applicants with a baccalaureate degree are given preference. A major in professional biology with either a chemistry major or minor is required. In addition to the required coursework, admission to a school of veterinary medicine requires high scholastic achievement and acceptable scores on the appropriate admission test. Students interested in this field should make contact with the preveterinary adviser for assistance in scheduling the appropriate coursework and for information regarding other application requirements.

Major and minor: Professional biology major with chemistry major or minor

Required Course	Semesters	UNA Equivalent
Introduction to Computers	1	CS 110
Applied Statistics	1	MA 345
Calculus	2	MA 121, 122
Physics (with lab)	2	PH 241, 242 or 251, 252
Philosophy	1	PHL 205

5. **Medical Technology.** Students who plan to pursue a program to meet requirements for admission to a program of medical technology can do so at this University. Applicants must have a baccalaureate degree with a major in chemistry. In addition to the required coursework, admission to a school of medical technology requires high scholastic achievement and acceptable scores on the appropriate admission test. Students interested in this field should make contact with the medical technology adviser for assistance in scheduling the appropriate coursework and for information regarding other application requirements.

Major and minor: chemistry major and biology minor

Required Course	Semesters	UNA Equivalent
Introduction to Computers	1	CS 110
Introduction to Statistics	1	MA 147
Physics (with lab)	2	PH 241, 242 or 251, 252

6. **Physical Therapy.** Requirements for admission to a graduate program leading to a master's degree in physical therapy vary among professional schools. Students interested in this field should contact the pre-professional adviser at this University and consult the catalog of the graduate school offering the physical therapy program. No specific major is required. Students applying to graduate programs must have a bachelor's degree from a regionally accredited college or university. The following courses are usually required before acceptance into a physical therapy master of science degree program. These courses may be taken as part of your undergraduate degree program or in addition to it.

Required Course	Semesters	UNA Equivalent
English	2	EN 111, 112 or 121, 122
Biology	4	BI 111, 112, 141, 142
Chemistry	2	CH 111, 111L, 112, 112L
Physics	2	PH 241, 242 or 251, 252
Mathematics	1	MA 113 or 115
Statistics	1	MA 147 or 345
Psychology	3	PY 201; choose from among PY 242, 302, 361

7. **Occupational Therapy.** Students who plan to pursue a program to meet requirements for admission to a program of occupational therapy can do so at this University. Applicants must have a baccalaureate degree with a major in biology. In addition to the required coursework, admission to a school of occupational therapy requires high scholastic achievement and acceptable scores on the appropriate admission test. Since each occupational therapy school may require different supporting coursework, students interested in this field should make contact with the occupational therapy adviser for assistance in scheduling the appropriate coursework and for information regarding other application requirements.

Major and minor: Biology major with a minor in a field that supports occupational therapy (psychology is recommended).

Required Course	Semesters	UNA Equivalent
Introduction to Computers	1	CS 110
Human Anatomy & Physiology	2	BI 141, 142
Art Design	1	AR 231
Developmental Psychology	1	PY 242
Abnormal Psychology	1	PY 302
Introduction to Statistics	1	MA 147
Applied Statistics	1	MA 345

8. **Allied Health.** Students may complete the one to three years of preparatory coursework required by schools of allied health at this University. Some allied health programs give preference to applicants having a baccalaureate degree with a major in biology. In addition to required coursework, admission to a school of allied health requires high scholastic achievement and acceptable scores on the appropriate admission test. Students interested in this field should make early contact with the allied health adviser for assistance in scheduling the appropriate coursework and for information regarding other application requirements.

Law. Admission to accredited schools of law requires from three to four years of college preparatory work, with preference given to applicants with a bachelor's degree even where the degree itself is not a requirement for admission. Law schools are not specific as to preparatory coursework, but applicants will be expected to present a broad preparation, a good scholastic record, and acceptable scores on the Law School Admission Test, which should be taken nine months prior to the term for which admission is sought. For students planning to prepare for law, suggested programs include those leading to a Bachelor of Arts degree with major-minor concentrations emphasizing fields such as history, political science, or English, or those leading to a Bachelor of Business Administration degree from the College of Business. Prelaw students who may be admitted to an accredited school of law prior to graduation may qualify for a bachelor's degree from this University through satisfaction of three years of the approved undergraduate curriculum and of the freshman year of law school. For details on prelaw requirements and programs the student should consult the dean of the college.

Other Preprofessional Programs. The University's undergraduate courses of study and degree programs provide preparation for admission to professional or graduate schools for a number of other professional and vocational fields, including those in theology, religious education, library science, music, and others. For additional information and recommended courses of study, the student should contact the Office of the Dean of the College of Arts and Sciences.

SPECIAL PROGRAMS AND ACTIVITIES

Certificate in Geographic Information Systems. The Department of Geography offers a Certificate in Geographic Information Systems designed for professionals wishing to increase their job skills, geography majors wishing to have their skills recognized through a certification program, and students from other disciplines interested in broadening their knowledge of the use of Geographic Information Systems. Courses focus on the application of GIS technology to a variety of fields including biology, forestry, geology, city and regional planning, transportation planning, marketing and software development within the GIS industry. The courses are offered on weekends and during interim periods. Admission requires current enrollment at UNA, a 4 year university degree, or 5 years experience in a related field and consultation with the director of the program. Regular students may apply to the department chair and seek the certificate by substituting GE 225 and GE 325 for GE 226 and GE 326. The program is offered in conjunction with the Office of Continuing Education.

**REQUIREMENTS FOR A CERTIFICATE IN
GEOGRAPHIC INFORMATION SYSTEMS**

Course	Credit
Maps and Image Analysis (GE 225 or 226)	3
Computer Mapping (GE 325 or 326)	3
Geographic Information Systems (GE 424)	3
Advanced Digital Techniques in Geography (GE 484)	3
Special Topics (GE 497).....	1-3
Total	13-15

Certificate in Gerontology. The Department of Sociology offers a Certificate in Gerontology. This certificate is offered to both degree seeking students as well as community persons seeking professional/personal advancement. Non-degree seeking students will be admitted to the University via established admission guidelines. The certificate is designed to provide a broad base of knowledge related to the social, psychological and physiological aspects of aging. The certificate is comprised of 21 hours of coursework and 3 hours of field practice. The program is offered in conjunction with the Office of Continuing Education and the College of Nursing and Allied Health.

REQUIREMENTS FOR A CERTIFICATE IN GERONTOLOGY*

Course	Credit
Health and Aging (HED/NU 420)	3
Gerontology (NU/SO/SW 403)	3
Psychology of Adult Development and Aging (PY 350)	3
Aging and Society (SO 308)	3
Death and Dying (SO 309)	3
Practicum (SO 499)	3
Electives (selected from ED 299, HED 499, NU 323 or SO 395, NU 415, SO 307, SW 491	6
Total	24

* Nine hours of prerequisite work are required (EN 111/112 and a general biology course) prior to the student entering any upper-level course for certificate credit.

Law Enforcement Academic Certificate. The Department of Social Work and Criminal Justice offers a Law Enforcement Academic Certificate for practicing professionals in the criminal justice system. The certificate serves to enhance professional skills and maximize promotional opportunities while also satisfying state-mandated training requirements. The certificate is comprised of six advanced courses designed to broaden knowledge of the organizational, investigative and legal components of law enforcement work (all credits count toward the requirements for a degree in criminal justice at UNA). One night course is offered each fall and spring semester at an off-campus site selected for professional convenience. Persons enrolled in certificate courses must be employed by a criminal justice agency, possess a high school diploma or GED, and be admitted to the University.

**REQUIREMENTS FOR THE LAW ENFORCEMENT
ACADEMIC CERTIFICATE***

Course	Credit
<i>Professional Ethics and Liabilities (CJ 326)</i>	<i>3</i>
<i>Criminal Investigation (CJ 405)</i>	<i>3</i>
<i>Criminal Investigation II (CJ 406)</i>	<i>3</i>
<i>Criminal Law (CJ415)</i>	<i>3</i>
<i>Criminal Evidence (CJ 430)</i>	<i>3</i>
<i>Criminal Procedure (CJ 434)</i>	<i>3</i>
<i>Total</i>	<i>18</i>

Center for Critical Languages Research and Acquisition. Through the services of the National Association of Self-Instructional Language Programs, the Department of Foreign Languages offers foundation courses in languages other than French, German and Spanish. The Center provides a location for the listening and recording activities as well as the production and storing of materials and equipment needed for self-instructional courses.

Entertainment Industry Center. This Center is a teaching, resource and public service unit of the College of Arts and Sciences. It addresses the stated and perceived curriculum needs of students and involves the alumni, and both the local community and the community-at-large in promoting music and other areas of entertainment. It is the first known establishment of a University Center designed to educate, coordinate, and service all primary professional areas of the entertainment industry.

* CJ 250-Introduction to Criminal Justice is a prerequisite to all certificate courses. Professionals who submit evidence of the completion of a state-certified police academy may gain credit for this course by passing a challenge examination.

Geographic Research Center. The Center, a research, teaching and public service unit of the Department of Geography, has a three-fold purpose. It enhances the instructional programs of the University, creates research opportunities for students and faculty, and extends benefits of the technology and research to potential users.

Herbarium and Plant Resources Research Laboratory. The focus of the Laboratory is to maintain in the Department of Biology a complete plant collection for use by students and faculty as an instructional and research resource. It also serves as a historical record of the plant species that occur in northwestern Alabama, northeastern Mississippi and southcentral Tennessee. The Laboratory functions in the identification and/or verification of unknown plant material, promotes public awareness of rare and/or endangered species, and conducts environmental impact studies and floristic surveys. In addition, continuing education courses and workshops in plant studies may be offered to the public.

Occupational and Environmental Health Laboratory. The Laboratory offers unparalleled opportunities for student participation in actual industrial hygiene case studies and other relevant health and environmental studies. Opportunities exist for faculty and students to participate in cooperative education programs with federal agencies and local industries as a public service of the Department of Chemistry and Industrial Hygiene.

Women's Studies. A minor program in women's studies is administered jointly by the Departments of English and History and Political Science. Women's studies is an interdisciplinary program that places women at the center of inquiry encouraging students to examine and critique the experiences of women and the assumptions about women's lives. The program also highlights the contributions of women in all fields of study.

COLLEGE OF BUSINESS

Dr. Kerry P. Gatlin, Dean
315 Keller-Raburn Wing
765-4261

The College of Business contains the following departments:

Department of Accounting and Business Law
Department of Computer Information Systems
Department of Economics and Finance
Department of Management and Marketing

Through its departments the College of Business offers the Bachelor of Business Administration degree with majors in several areas; minor programs; coursework applicable to general studies components in all university degree programs; curricula for the preparation of secondary teachers of business and marketing subjects in degree programs offered through the College of Education; and courses suitable for general electives or for personal and vocational interests. The College of Business also offers a Master of Business Administration (MBA) degree with several concentrations available. The College of Business is accredited by the Association of Collegiate Business Schools and Programs (ACBSP).

The programs, courses, and functions of the College of Business are designed to serve students who wish to prepare for positions in the business, commercial, financial, and industrial fields, and in governmental agencies at the national, state, and local levels; for graduate study leading to professional positions in these areas and in teaching and research; for preparation for admission to professional schools of law; and for the development of knowledge, skills, and understanding for application in the business world and in society at large. The major program in accounting also includes coursework appropriate to the criteria and examinations leading to qualification as a Certified Public Accountant and a Certified Management Accountant. Anyone wishing to sit for the CPA Examination in Alabama must have completed at least 150 semester hours including a bachelor's degree. The "MBA with an Accounting Concentration" offered through our graduate program will satisfy those requirements.

In its curricula the College of Business provides special opportunities for credit through supervised field experiences. A number of courses are also offered regularly in the evening hours for the particular convenience of employed persons in the area.

Degree Programs

The College of Business offers the Bachelor of Business Administration degree with major options in

Accounting (professional, forensic)
Computer Information Systems (applications programming and design,
applied micro systems design, business technology management)

Economics
 Finance (professional, banking, and financial services) Management
 (organizational and human resource, entrepreneurship,
 entertainment industry management, hospitality management)
 Marketing
 A Master of Business Administration degree program (several concentrations available)

Minor Fields

The College of Business provides minor programs in accounting, business administration, business technology management, computer information systems, economics, entrepreneurship, management, marketing, quantitative methods, and real estate and insurance which may be applied for minor field requirements in programs offered in other colleges of the University.

REQUIREMENTS FOR THE BACHELOR OF BUSINESS ADMINISTRATION DEGREE

Course	Credit
A. General Studies Component.....	18
For general studies requirements for Areas I and II and additional requirements for UNA students, refer to <i>Academic Procedures and Requirements</i> .	
Business majors must complete:	
*Area III. Natural Sciences and Mathematics.....	11
3 semester hours selected from the following:	
Mathematics 112 (3)	Mathematics 126 (4)
Mathematics 113 (3)	Mathematics 227 (4)
Mathematics 115 (4)	Mathematics 237 (3)
Mathematics 125 (4)	Mathematics 238 (3)
8 semester hours selected from the following:	
Biology 101 (4)	Earth Science 121 (3)
Biology 102 (4)	Earth Science 121L (1)
Biology 111 (4)	Earth Science 131 (4)
Biology 112 (4)	Earth Science 132 (4)
Chemistry 101 (3)	Geography 111 (4)
Chemistry 101L (1)	Geography 112 (4)
Chemistry 102 (3)	Physics 101 (4)
Chemistry 102L (1)	Physics 121 (4)
Chemistry 111 (3)	Physics 125 (4)
Chemistry 111L (1)	Physics 241 (4)
Chemistry 112 (3)	Physics 242 (4)
Chemistry 112L (1)	Physics 251 (5)
	Physics 252 (5)

* Entertainment Industry Management majors must take PH 121 as one of their science requirements.

Course	Credit
Area IV. History, Social and Behavioral Sciences	12
Economics 251-252 (6)	
History 101-102 (6) or History 201-202 (6)	
Area V: Additional Requirements	23
Accounting 291-292 (6)	
Business Law 240 (3)	
Computer Information Systems 125 (3)	
Quantitative Methods 291-292 (6)	
Quantitative Methods 295 or Mathematics 121 (3)	
*Non-business General Education Elective (2)	
	64
B. Ma~or Core Requirements:	
**Business Law 455 or Economics 353 or Finance 353 or	
Management 491 or Marketing 491	3
Finance 393	3
Management330	3
Management420	3
Management482W	3
Management498	3
Marketing 360	3
	21
C. Business Majors:	
Major in Accounting:	
Option One: Professional Accounting	
Accounting 390.....	3
Accounting 391.....	3
Accounting 392.....	3
Accounting 471.....	3
Accounting 472.....	3
Accounting 473.....	3
Accounting Electives	6
	***24
Option Two: Forensic Accounting	
Accounting 390.....	3
Accounting 391.....	3
Accounting 392.....	3
Accounting 471.....	3
Accounting 472.....	3
Accounting 473.....	3
Accounting 496.....	3
Accounting 497.....	3
Accounting 498	3
Business Law 497.....	3
	*30
* Hospitality management majors must take HES 242.	
** Economics majors should take EC 353; Finance majors should take FI 353.	
*** Students interested in sitting for the CPA exam and completing an MBA degree with an a@Unting	

concentration should include AC 395 and BL 380 in their undergraduate program.

Course	Credit
Major in Computer Information Systems:	
Option One: Applications Programming and Design	
Accounting 396	3
Computer Information Systems 201	3
Computer Information Systems 207	3
Computer Information Systems 225	3
Computer Information Systems 320	3
Computer Information Systems 330	3
Computer Information Systems 400	3
Computer Information Systems 445	3
Computer Information Systems 485	3
.....	3
—	27
Option Two: Applied Micro Systems Design	
Accounting 390	3
Computer Information Systems 201	3
Computer Information Systems 225	3
Computer Information Systems 315	3
Computer Information Systems 330	3
Computer Information Systems 445	3
Computer Information Systems 485	3
Computer Information Systems 492	3
Computer Information Systems 496	3
.....	3
—	27
Option Three: Business Technology Management	
Computer Information Systems 240	3
Computer Information Systems 330 or 425 or 480	3
Computer Information Systems 350	3
Computer Information Systems 365	3
Computer Information Systems 375	3
Computer Information Systems 435	3
Computer Information Systems 470 or 485	3
Computer Information Systems 495	3
.....	3
—	24
Major in Economics:	
Economics 340	3
Economics 341	3
Economics 428	3
Economics or Quantitative Methods Electives	12
Finance 391	3
.....	3

Major in Finance:

Option One: Professional Finance

Accounting Elective (300/400 level)	3
Economics 340	3
Finance 391	3
Finance 394	3
Finance 492	3
Finance 495	3
Finance 498	3
Finance or Quantitative Methods Elective	3

Course	Credit
<i>Option Two: Banking and Financial Services</i>	
Accounting 390.....	3
Accounting 391.....	3
Finance 391	3
Finance 394	3
Finance 423	3
Finance 492	3
Finance 498	3
Elective from among AC 392, 471, 472, 473, 496, 497	3
Electives from among AC 392, 471, 472, 473, 496, 497 or FI 430, 440, 445, 470, 480, 486, 499	6
	30
<i>Major in Management:</i>	
<i>Option One: Organizational and Human Resource Management*</i>	
Computer Information Systems 350	3
Management331	3
Management362	3
Management371	3
Management462	3
Management471	3
Management Elective (300/400 level)	3
Business Elective (300/400 level)	3
	24
<i>Option Two: Entrepreneurship</i>	
Business Law 381	3
Finance 385	3
Management 331 or 480	3
Management 362 or Marketing 461	3
Management391	3
Management494	3
Marketing 395	3
Marketing 492	3
	24
<i>Option Three: Entertainment Industry Management*</i>	
Entertainment 300 or 425, or COM 470	3
Entertainment 325	3
Entertainment 329	3
Entertainment 335	3
Entertainment 426 or 430, or COM 400	3
Entertainment 470	3
**Entertainment 495	3
Management371	3
Music 225	3
	27

* It is strongly recommended that students considering graduate school take EC 340 or FI 391.

** Must have completed all other major option area and prescribed supporting course and at least 100

semester hours toward the B.B.A. in Entertainment Industry Management, and have departmental approval, before participating in an entertainment industry management practicum-ntemship experience. May be repeated once as an elective with departmental approval as MU 495.

Course	Credit
<i>Prescribed Supporting Course:</i>	
Music 435	3
	30
<i>Option Four: Hospitality Management</i>	
Accounting 396	3
Human Environmental Sciences 342	3
Human Environmental Sciences 353	3
Human Environmental Sciences 355	3
Human Environmental Sciences 455	3
Management332	3
Management480	3
Management490	3
Management499	3
Marketing 461	3
Marketing 480	3
Marketing 499	3
<i>Major in Marketing*:</i>	
Marketing 363.....	3
Marketing 461	3
Marketing 479.....	3
Marketing 492.....	3
Marketing 498.....	3
Electives from among CIS 350, MG 362, MK 395, MK 476, MK elective.....	9

D. A minor is not required for any business major.

E. General Elective hours, if required, to bring total to 128.

REQUIREMENTS FORA MINOR IN ACCOUNTING

Course	Credit
Accounting 291	3
Accounting 292	3
Accounting 390.....	3
Accounting 391	3
Electives from among Accounting 392, 395, 471, 472, 495, 496	6
Total	18

REQUIREMENTS FORA MINOR IN BUSINESS ADMINISTRATION

Course	Credit
Accounting 291	3
Accounting 292 or Economics 252	3
Economics 251	3
Management330.....	3
Management or Marketing 494	3

* It is strongly recommended that students considering graduate school take EC 340 or FI 391.

<i>Marketing 360</i>	3
<i>Total</i>	18

**REQUIREMENTS FOR A MINOR IN
BUSINESS TECHNOLOGY MANAGEMENT**

<i>Course</i>	<i>Credit</i>
<i>Computer Information Systems 240</i>	<i>3</i>
<i>Computer Information Systems 365</i>	<i>3</i>
<i>Computer Information Systems 375</i>	<i>3</i>
<i>Computer Information Systems 435</i>	<i>3</i>
<i>Computer Information Systems 470 or 485</i>	<i>3</i>
<i>Computer Information Systems 495</i>	<i>3</i>
<i>Total</i>	<i>18</i>

**REQUIREMENTS FOR A MINOR IN
COMPUTER INFORMATION SYSTEMS**

<i>Course</i>	<i>Credit</i>
<i>*Computer Information Systems 125</i>	<i>3</i>
<i>Computer Information Systems 201 and 315; or 207 and 320</i>	<i>6</i>
<i>Computer Information Systems 330 3 Computer Information Systems Electives (225, 375, 445, 485, 492, 496)</i>	<i>6</i>
<i>Total</i>	<i>18</i>

REQUIREMENTS FOR A MINOR IN ECONOMICS

<i>Course Credit Economics 251</i>	<i>3</i>
<i>Economics 252</i>	<i>3</i>
<i>Economics 340</i>	<i>3</i>
<i>Economics 341</i>	<i>3</i>
<i>Quantitative Methods 291</i>	<i>3</i>
<i>Elective approved by Dept. Chair</i>	<i>3</i>
<i>Total</i>	<i>18</i>

REQUIREMENTS FOR A MINOR IN ENTREPRENEURSHIP

<i>Course Credit Computer Information Systems 375</i>	<i>3</i>
<i>Management 100</i>	<i>3</i>
<i>Management 391</i>	<i>3</i>
<i>Marketing 395</i> 3 Electives from among BL 381, FI 385, MG 331, MG 362, MG 480, MG 494, MK 360, MK 461, MK 492	<i>6</i>
<i>Total</i>	<i>18</i>

* Business majors and those who have taken a course equivalent to CIS 125 must take one of the CIS 400-level electives listed above.

REQUIREMENTS FOR A MINOR IN MANAGEMENT

Course	Credit
Management 100	3
Management 330	3
Management 331	3
Management 471	3
Management Electives	6
.....	—

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Total	18
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REQUIREMENTS FOR A MINOR IN MARKETING

Course	Credit
Management 100	3
Marketing 360	3
Marketing 363	3
Marketing 461	3
Marketing 492	3
Marketing Elective	3
.....	—

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Total	18
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REQUIREMENTS FOR A MINOR IN QUANTITATIVE METHODS

Course	Credit
Economics 340	3
Economics Elective	3
Quantitative Methods 295	3
Quantitative Methods 395	3
Quantitative Methods 480	3
Quantitative Methods Elective	3
.....	—

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Total	18
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REQUIREMENTS FOR A MINOR IN REAL ESTATE AND INSURANCE

Course Credit	
Finance 325	3
Finance 355	3
Finance 365 or 375	3
Finance 430	3
Finance 440 or 445	3
Elective approved by the department head	3
.....	—
— Total	18

DEPARTMENT OF ACCOUNTING AND BUSINESS LAW

Chair: Dr. Sharon Campbell, 227 Keller Hall, 765-4324

Faculty: Dr. W. Campbell, Dr. Ferry, Mrs. Glasscock, Mr. Holley, Mr. Khan, Dr. Lawrence, Mr. Mosakowski

DEPARTMENT OF COMPUTER INFORMATION SYSTEMS

Chair: Dr. Paulette Alexander, 211 Keller Hall, 765-4324

Faculty: Mr. Bailey, Mr. Davis, Mrs. Gossett, Dr. Hailey, Mr. Huang, Dr. Parris, Mr. Thompson, Mrs. Williams

DEPARTMENT OF ECONOMICS AND FINANCE

Chair: Dr. Barry K. Morris, 318 Keller-Raburn Wing, 765-4270

Faculty: Dr. Barrett, Mr. Black, Dr. Couch, Dr. Gordon, Dr. King, Mr. Malone, Dr. Van Rensselaer, Dr. Williams

DEPARTMENT OF MANAGEMENT AND MARKETING

Chair: Dr. Bob Armstrong, 313 Keller-Raburn Wing, 765-4234

Faculty: Dr. Borah, Dr. Crawford, Dr. Hallock, Dr. Jobe, Dr. Lester, Dr. Lewis-Adler, Mrs. Lindsey, Mr. Stafford, Dr. Thorne, Mrs. Yancey

SPECIAL PROGRAMS AND ACTIVITIES**SMALL BUSINESS DEVELOPMENT CENTER**

The College of Business Small Business Development Center addresses the needs of the community. The UNA SBDC provides information, counseling and assistance to individuals planning to start a small business and to existing small businesses. In addition, the center provides the entrepreneur with education and training opportunities which cover a wide range of business topics. Government contracting is yet another service the UNA SBDC provides to small businesses.

COLLEGE OF EDUCATION

Dr. Mark A. Edwards, Dean
549 Stevens Hall
765-4252

The College of Education contains the following departments:

Department of Elementary Education
Department of Secondary Education
Department of Counselor Education
Department of Health, Physical Education, and Recreation
Department of Human Environmental Sciences

Through its departments the College of Education offers programs leading to the bachelor's and master's degrees; certification programs leading to qualification for recommendation for the Alabama Class B and Class A professional certificates for school personnel; coursework applicable to programs in other colleges in the University; and special courses, conferences, workshops, and consultative services for the continuing development of educational services in the state, region, and community. The College of Education also administers the university's organized activities consisting of the Kilby School (child development center, kindergarten, first through sixth grade), the Education Research and Inservice Center, the Wellness Research and Service Center and the Human Performance Laboratory. The degree programs and courses of study provided through the College of Education include the following academic programs:

1. Bachelor of Science in Education degree, and qualification for recommendation for the Alabama Class B Professional Certificate in Elementary Education
 - P-12 Education in Art and Physical Education
 - Secondary Education in selected subject fields
2. Bachelor of Music in Music Education degree in Instrumental Music P-12 and Vocal/Choral Music P-12.
3. Bachelor of Science degree (nonteaching) with majors in Health, Physical Education, and Recreation Human Environmental Sciences
 - (Concentrations in Merchandising, Interior Design, Foods and Nutrition, and Family Resource Management)
4. Master of Arts in Education degree, and qualification for recommendation for the Alabama Class A Professional Certificate in Counseling
 - Educational Leadership
 - Elementary Education
 - P-12 Education
 - Secondary Education
 - Special Education: Collaborative Teacher

5. Alternative fifth-year program leading to the Master of Arts in Education degree with qualification for recommendation for the Alabama Class A Professional Certificate in selected fields.
6. Community Counseling and Health Promotion and Human Performance programs leading to the Master of Arts degree.
7. Minor Field Programs in

Coaching	Human Environmental Sciences
Fitness Management	Physical Education
Foods and Nutrition	Recreation
Health	Retailing and Clothing
8. The Education Specialist degree is awarded in the field of Educational Administration.
9. Courses of study appropriate to initial qualification or reinstatement of professional certification for public school personnel.

All of the above programs and courses of study leading to the bachelor's degree, master's degree, education specialist degree, and institutional recommendation for the Alabama Class B, Class A, and Class AA professional certificates are administered by the Dean of the College of Education. **Degree programs and courses of study are subject to change without further notice in order to follow federal or state guidelines for teacher certification. Students should consult their advisor in education to obtain a description of the most current offerings and requirements.** Complete information concerning graduate work is contained in the *Graduate Catalog*. Inquiries and requests for the catalog should be directed to the Office of Admission.

Admission and Retention in Teacher Education

1. Admission to the University.
 - a. Admission to the University does not assure admission to programs in teacher education. Formal application to teacher education should be made during the semester of enrollment in ED 292. This is normally the second semester of the sophomore year or, for transfer students, upon admission to the University at that same level or above.
 - b. Satisfaction of the following criteria for **unconditional** admission to teacher education:

OPTION 1. a grade point average of 2.50 or better on all UNA work attempted, on all college work attempted, on all work attempted in the teaching field/s and **3.00** on all work attempted in the professional studies component; (1) completion of the required general studies in the program; (2) a grade of **C** or better in Communication 201; (3) completion of satisfactory interviews designed to provide further information on the applicant's personality, interests, and aptitudes consistent with the requirements for success in teaching; (4) satisfactory completion of Education 292; and (5) a **C** or better in EN 111-112.

Satisfaction of the following criteria for **conditional** admission to teacher education:

OPTION 2. a grade point average of 2.50 or better on all UNA work attempted, on all college work attempted, on all work attempted in the professional studies component, and on all work attempted in the teaching field/s; (1) completion of the required general studies in the program selected; (2) a grade of **C** or better in Communication 201, which is required of all education majors, including transferring students; (3) completion of satisfactory interviews designed to provide further information on the applicant's personality, interests, and aptitudes consistent with the requirements for success in teaching; (4) satisfactory completion of Education 292; and (5) a **C** or better in EN 111-112 or EN 121-122; and (6) a letter of recommendation from two **education** faculty members supporting a student's conditional admission to teacher education.

Satisfaction of the following criteria for **unconditional admission to teacher education after conditional admission**: after conditional admission has been achieved, the applicant must complete 12 semester hours of professional education courses that have a prefix of ECE, ED, EED, or EEX and obtain a grade point average of at least 3.00 on those courses. No more than 12 semester hours of the specifically prefixed courses required in the student's program may be taken while on condition admission. If a student on conditional admission does not achieve the required grade point average, admission will be revoked.

- c. Students who have attended institutions outside the United States must have their transcripts evaluated by the World Education Services, Inc. (WES)
- d. During the term following application for admission, applications are reviewed by the Certification Officer and the student is notified of the action taken. Admission may be approved or denied on the basis of the requirements listed.
- e. Prior to formal admission to teacher education, secondary and P-12 students having at least a second semester sophomore level classification may enroll in up to 10 semester hours of study, from the following courses: ED 292, ED 299, ED 331, and ___EEX 340. Prior to formal admission to teacher education, elementary students may enroll in the following courses: ED 292, ED 299, ECE 306, ECE 309, ECE 312, EED 305, ES 308, EEX 340, and MA 306.
- f. Students majoring in elementary education, human environmental sciences and physical education will be assigned to a faculty adviser in their major; students in programs in secondary education or in P-12 programs in art and music will be assigned to a major adviser in the subject field department and to a faculty adviser in the Department of Secondary Education. The advisers will assist the students in planning the academic program, and will provide general, personal, and professional guidance from the time of admission to the program until graduation or change of program.

2. Retention in Programs: Students must maintain a 3.00 or above grade point average in professional education courses with a prefix of ECE, ED, EED, or EEX to be retained in teacher education programs.
3. Students who plan to seek certification in another state should contact the State Department of Education in that state to find out whether or not a comparable certificate exists.
4. Admission to Student Internship: Students previously admitted to teacher education must also be approved for admission to student internship.
 - a. Application forms for admission to student internship are to be secured from and filed with the Certification Officer early in the term preceding the term in which enrollment will be sought. A deadline will be posted in September for enrollment in the following spring term and in January for enrollment in the following fall term. Applications filed after the posted deadlines must be accompanied by a late application fee of \$25.00.
 - b. Approval for admission to student internship is based on satisfaction of the following criteria: (1) unconditional admission to teacher education; (2) a grade point average of 2.50 or above on all UNA work attempted, on all college work attempted, on all work attempted in the teaching field/s, and **3.00** on all work attempted in the professional studies component with no grade lower than **C**; (3) completion of coursework appropriate to the program of teacher education selected; (4) satisfactory recommendations from assigned advisers in the major field; (5) a satisfactory score on the three parts of the Alabama Prospective Teacher Test; (6) a negative result on a current tuberculosis test; and (7) documentation of an acceptable Spanish language experience.
 - c. During the term in which application is made, the Certification Officer will review the applications and notify the student of the action taken.
5. Exit Requirements: Graduation and eligibility for certification are based on satisfaction of the following criteria: (1) grade point average of 2.50 on all college work attempted, on all work attempted at the University of North Alabama, on all work attempted in the teaching field(s), and a grade point average of at least **3.00** with no grade lower than **C** in the appropriate courses that have a prefix of ECE, ED, EED, or EEX in the professional education component; (2) completion of coursework appropriate to the program of teacher education selected; (3) a passing score on a comprehensive examination covering the teaching field(s) and professional education.

Student Internship

Student internship is offered during the fall and spring semesters. The intern shall not be enrolled in other courses during the internship. The student internship component shall be full-time for 16 weeks in appropriate classroom settings.

The University reserves the right to assign a student intern to a placement in the greater Shoals area due to limitations on human and fiscal resources. Enrollment in a teacher-education program indicates a willingness on the part of the student to spend the time and effort required at the station to which assigned, and to comply with the codes, policies, and regulations of that school. The student intern is responsible for transportation to and from the student internship assignment.

P-12 majors who wish to complete requirements for a second education major (6-12 level) through a university program will be required to do an additional internship. The internship will be a full-time assignment for four weeks in the second subject area. The placement will occur in a semester subsequent to the P-12 internship assignment.

Students holding or completing 6-12 or P-12 certification who wish to add Elementary Education will be required to complete a full semester of internship.

Students who have completed a teacher education program and wish to add another area of certification should contact the University of North Alabama Certification Office.

Professional Certificates

To be eligible for issuance of an initial Class B Alabama teacher's certificate, the candidate must earn a passing score on a comprehensive examination which covers the content of the teaching field(s) and professional education. Each candidate for initial certification must receive confirmation by the Alabama Bureau of Investigation (ABI) and the Federal Bureau of Investigation (FBI) resulting from a fingerprint review that an applicant has no criminal history. An individual who has been convicted of or entered a plea of no contest to a felony or misdemeanor other than a minor traffic violation will be required to provide details of conviction and submit court certified copies of the judgment, conviction, and sentencing when applying for an Alabama teacher's certificate. Additional policies and regulations governing the issuance of teacher certificates are established under the authority of the State Board of Education and are contained in the *Administrative Code* published by the State Department of Education. The University of North Alabama cannot assume responsibility for changes in certification requirements due to changes in State Board of Education policy.

Organized Activities

Kilby Child Development Center. Kilby Child Development Center has a program for three- and four-year-old children. The Pre-K four-year-old program is presently state funded, free to participants, and operates from 8 a.m. to 3 p.m. five days a week. The program for three-year-olds is half-day and children may attend two (2), three (3), or five (5) days a week. Information about the program is available on-line at www2.una.edu/cdc/ or by calling the Kilby Child Development Center. Admission to Kilby Laboratory School is a separate process. Children enrolled at the CDC *do not* automatically continue to the Kilby kindergarten.

Kilby School. Operated under the administration of the College of Education, Kilby School is located on the University campus and includes a kindergarten and grades one through six. It also serves as a student internship station for students in elementary education, as a laboratory school for teacher training, and for observation by students and faculty. Inquiries on the enrollment of children in Kilby School should be addressed to the Office of the Director. The application process is separate from and is in no way connected to those governing the Child Development Center.

Education Research and Inservice Center. Located at 739 Willingham Road, the center serves as a professional development center for excellence in education for preservice teachers and area teachers currently in the classroom. The center provides workshops, single-visit seminars, and consultants for individual teachers, board members, and administrators in a six-county region consisting of Colbert, Franklin, Lauderdale, Marion, Walker, and Winston Counties. Kilby School and the inservice center collaboratively serve as a demonstrational laboratory where teachers and school administrators may observe innovative educational practices.

Human Performance Laboratory. Located in Flowers Hall, Room 401, the laboratory serves as a physical education teaching and research center that benefits university personnel, their spouses, and the community. Students have the opportunity to acquire practical skills such as evaluation of the major components of health and physical fitness and the design of exercise prescriptions. Utilizing computer technology, students also learn to administer and evaluate health risk appraisals. Lab personnel and students regularly collect and analyze data for various research projects.

DEPARTMENT OF ELEMENTARY EDUCATION

Chair: Dr. Pam Fernstrom, 501 Stevens Hall, 765-4251

Faculty: Dr. Burney, Dr. Dillon, Dr. Dumas, Dr. Goodnite, Dr. Myhan, Dr. Nicholson, Dr. Risner, Ms. Webb, Dr. Young

The Department of Elementary Education offers programs leading to the Bachelor of Science in Education degree in elementary education for the preparation of teachers for kindergarten through sixth grade. Satisfactory completion of this degree program with a grade point average of 3.00 or higher qualifies the student for recommendation for the appropriate Alabama Class B Certificate. The degree programs are accredited by the National Council for the Accreditation of Teacher Education (NCATE), and satisfactory completion further qualifies the student for NCATE endorsement which is acceptable for professional certification in a number of other states.

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE
IN EDUCATION DEGREE
ELEMENTARY EDUCATION**

Requirements for the Bachelor of Science in Education degree with a major in elementary education include the prescribed general studies component, the major concentration, the professional education courses, and general electives for a total of 134 semester hours. A minor is not required. See section on Admission and Retention in Teacher Education for a description of the grade point requirements for admission and completion of a program that will enable the student to be recommended for a Class B Professional Certificate.

CLASS B PROGRAM K-6 CERTIFICATION (SBE/NCATE Approved)			
Course	Credit	Course	Credit
General Studies Component:		PROFESSIONAL COURSES .	70
Area I and Area II - See General Studies		EEX 340 (3)	
Component for Bachelor of Science		EEX 341 (3)	
Degree.....	18	EEX 350 (3)	
Area III.....	25	ECE 306 (3)	
MA 100 (3) or MA 105 (3)		ECE 309 (3)	
6 additional semester hours of mathematics		ECE 310W (3)	
from Area III of General Studies Component*		ECE 312 (3)	
BI 101 and 102 (8) or		ECE 381 (3)	
BI 111 and 112 (8)		ED 292 (1)	
8 additional semester hours of science in		ED 333W (3)	
2 different areas from Area III of General		EED 305 (3)	
Studies Component*		EED 324 (3)	
Area IV.....	12	EED 373W (3)	
HI 101 (3) and 102 (3) or		EED 374 (3)	
HI 201 (3) and 202 (3)		EED 377 (3)	
PY 201 (3)		EED 380 (3)	
One elective from GE or HI or PY or SO		EED 401 (3)	
Area V		**EED 472 (12)	
ED 299 (3)		HED 342 (3)	
Electives to bring total to 64 hours		ES 308 (3)	
		MA 306 (3)	
Total	64		134
			70

* MA 306 and ES 308 will not satisfy the additional Area III math and science requirements. ** To be taken in the last semester.

DEPARTMENT OF SECONDARY EDUCATION

Chair: Dr. Laura Stokes, 515 Stevens Hall, 765-4575

Faculty: Dr. Brown, Dr. Campbell, Dr. Davidson, Dr. Hunter, Dr. Hurren, Dr. Johnson, Dr. Lovett, Dr. Tollett

The Department of Secondary Education offers programs leading to the Bachelor of Science in Education degree. See Section on *Admission and Retention in Teacher Education* for a description of the grade point requirements for admission and completion of a program that will enable the student to be recommended for a Class B Professional Certificate. All programs are approved by the State Board of Education and the National Council for the Accreditation of Teacher Education (NCATE). Satisfactory completion further qualifies the student for the NCATE endorsement which is acceptable for professional certification in a number of other states.

The department also offers the courses of study by which students may qualify for initial certification or may change or reinstate certificates. The department provides coursework for the graduate and advanced professional certification programs.

Students taking subject field majors in art education, music education, or physical education may qualify for recommendation for the Alabama Class B P-12 Professional Certificate by completing the programs as outlined herein.

PROFESSIONAL EDUCATION GRADES P-12

Course	Credit
Teaching Methods (one of the following)	3
ECE 312 (Art), MU 381 (Music), PE 304 (Physical Education)	
EEX 340	3
ED 292	1
ED 331	3
ED 333W	3
ED 382	3
ED 383W	3
ED 401	3
ED 478	1
ED 481	3
ED 484	
.....	12
— Total	38

NOTE: Students may take only ten hours of professional education courses prior to formal admission to teacher education: ED 292, ED 299, ED 331, and EEX 340.

Courses that are taken to fulfill general studies requirements which are also included in a teaching field may count in both areas.

Students who plan to seek certification in another state should contact the State Department of Education in that state to find out whether or not a comparable certificate exists.

APPROVED TEACHING FIELDS

Art P-12
(SBE/NCATE Approved)
Course

A. General Studies Component:

For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements.

Education majors must complete:

Area IV.

tED 299 (3) HI

101-102 (6) PY

201 (3)

Area V. Additional Requirements 23

AR 180 (3), AR 221 (3), AR 222 (3), AR 231 (3), AR 232 (3), AR 281 (3)

Electives (0-5)

Remaining requirements to bring total to 23 semester hours

(from teaching field and electives)

Must complete ED 299 and PY 201 if not taken in Area IV (0-2)

64

TEACHING FIELD - ART 30-51

*AR 180 (3), AR 200 (3), *AR 221 (3), *AR 222 (3), *AR 231 (3), *AR 232 (3), *AR 281 (3), AR 282 (3), AR 311 (3), AR 323 (3), AR 342 (3), AR 347 (3), AR 351 (3), AR 391 (3), AR 493 (3), or a 300-400 level studio elective (3), and six hours from among AR 480W, AR 481 W, AR 482W, AR 483W, AR 484, AR 485W, and 486W

English as a Second Language (ESL)
(second area of certification required)

Course

Credit

A. General Studies Component

41

For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements.

Education majors must complete:

Area IV.

tED 299 (3)

HI 101-102 or HI 201-202 (6)

PY 201 (3)

Area V. Additional Requirements 23

Must complete ED 299 and PY 201 if not taken in Area IV (0-6) Remaining

requirements to bring total to 23 semester hours

(from teaching field and electives)

64

TEACHING FIELD - ENGLISH AS A SECOND LANGUAGE

16-18 ECE 381

t The CLEP examination may be taken for this course. *

Required if not taken in Area V.

Instrumental Music P-12
(SBE/NCATE Approved)
Course

A. General Studies Component:

For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements.

Education majors must complete:

Area IV.

tED 299 (3)

HI 101-102 or HI 201-202 (6)

PY 201 (3)

Area V. Additional Requirements 23

MU 105 (1), MU 111 or 121 (1), MU 112, 131 or 132 (2), MU 114, 115 or 117 (1), MU 116 or 161 (1), MU 141 (1), MU 151 (1), MU 171 (1), MU 181 (1), MU 201, 202 (6), MU 205 (1), MU 214, 215 or 217 (1), MU 220, 221 (2), music ensemble (2),

Music electives from teaching field (1)

TEACHING FIELD - INSTRUMENTAL MUSIC 40-63

*MU 201 (3), *MU 202 (3), *MU 220 (1), *MU 221 (1), MU 301 (3), MU 302 (3), MU 345W (3), MU 346 (3), MU 361 (2), MU 363 (3), MU 383 (2), MU 393 (2), MU 444 (3)

Music, Class and Applied:

*MU 111 or 121 (1), *MU 112 or 131 or 132 (2), *MU 141 (1), *MU 151 (1), *MU 161 (1), *MU 171 (1), *MU 181 (1);

Applied Music: Major Instrument (14) from

MU 114, 214, 314 (4), 414 or MU 115, 215, 315 (4), 415 or MU 116, 216, 316 (4), 416 or MU 117, 217, 317 (4), 417; **University Band (6 hours, with 3 hours at the 300-400 level) Small Ensemble (2); MU 419 (1)

Choral Music P-12
(SBE/NCATE Approved)
Course

A. General Studies Component:

For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements.

Education majors must complete:

Area IV.

tED 299 (3)

HI 101-102 or HI 201-202 (6)

PY 201 (3)

Area V. Additional Requirements 40-63

MU 107 or 110 (1), MU 111 or 112 (1), MU 112, 131 or 132 (1), MU 121 (1), MU 141 (1), MU 151 (1), MU 161 (1), MU 171 (1), MU 181 (1), MU 201, 202 (6), MU 207 or 210 (1), MU 211 or 212 (1), MU 220, 221 (2), music ensemble (2)

Music electives from teaching field (2)

NOTE: Requirements include piano proficiency, sophomore performance examination, and a senior recital prior to internship.

t The CLEP examination may be taken for this course.

* Required if not taken in Area V.

** Music education majors are required to participate in a major performing ensemble in the area of the student's specialization each semester of enrollment at the University as a full-time student, with the exception of the internship semester.

Course	Credit
TEACHING FIELD-CHORAL	***42-66
*MU 201 (3), *MU 202 (3), *MU 220 (1), *MU 221 (1), MU 301 (3), MU 302 (3), MU 345W (3), MU 346 (3), MU 361 (2), MU 363 (3), MU 384 (2), MU 394 (2), MU 395 (2), MU 396 (2), MU 444 (3), Music, Class and Applied: *MU 112 or 131 (1), *MU 121 (1), *MU 141 (1), *MU 151 (1), *MU 161 (1), *MU 171 (1), *MU 181 (1); MU 111, 211, 311 (4), 411 Applied Voice (14) or *MU 112, 212, 312 (4), 412 Applied Piano (13) **Collegiate Singers or University Chorale (six hours, with three hours at the 300400 level) Small Ensemble (2); MU 419 (1)	
Physical Education P-12 (SBE/NCATE Approved) Course A. General Studies Component: For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete: Area IV. tED 299 (3) HI 101-102 or HI 201-202 (6) PY 201 (3) Area V. Additional Requirements 23 BI 141 (4), BI 142 (4), HED 155 (1), HED 213 (3), PE 102 (1), PE 105 (1), PE 130 OR 131; PE 140 (2), PE 221 (3), PE 233 (3), PE 275 (1) Remaining requirements to bring total to 23 semester hours (from teaching field and electives) Must complete ED 299 and PY 201 if not taken in Area IV (0-6)	
TEACHING FIELD - PHYSICAL EDUCATION	64
.....	44
*HED 155 (1), *HED 213 (3), *PE 221 (3), *PE 233 (3), *PE 275 (1), PE 300 (3), PE 352 (3), PE 353W (3), PE 378 (3), PE 401 (3), PE 443 (3), PE 451 (3); PEActivities: *PE 102 (1), *PE 105 (1), PE 116 (1), PE 126 (1), *PE 130 or 131 (1), *PE 140 (1); Select PE Electives (six hours) from the following: PE 370 (3), PE 371 (3), PE 402 (3), PE 421 (3), PE 425 (3), PE 450 (3)	

NOTE: Requirements include piano proficiency, sophomore performance examination, and a senior recital prior to internship.

t The CLEP examination may be taken for this course.

* Required if not taken in Area V.

** Music education majors are required to participate in a major performing ensemble in the area of the student's specialization each semester of enrollment at the University as a Full-time student, with the exception of the internship semester.

*** Vocal/Choral majors who choose voice as their recital medium must take 71 hours.

**PROFESSIONAL EDUCATION
SECONDARY (GRADES 6-12)**

Course	Credit
<i>Teaching Methods (one of the following):</i> 3 BI 380 (Biology), CH 380 (Chemistry), EN 323 (English), a Foreign Language methods course, a Geography methods course, a General Science methods course, HI 303 (History, Social Science), MA425 (Math), PH 380 (Physics)	
EEX 3403	
ED 292	1
ED 331	3
ED 333W	3
ED 382	3
ED 383W	3
ED 401	3
ED 478	3
ED 481	1
ED 482	12
Total	35

NOTE: At the time the 2005-2006 Undergraduate Bulletin was submitted for printing, the programs listed below were in the process of being approved by the Alabama Commission on Higher Education and could not be included. For more information about the status of the programs, contact the Department of Secondary Education.

General Physics, Business and Marketing Education

General Biology		
Course	(SBE/NCATE Approved)	Credit
A. General Studies Component:		
.....		41
For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements.		
Education majors must complete:		
Area III.		
BI 111 (4), BI 112 (4), MA 112, 115 or 125 (3-4)		
Area IV.		
tED 299 (3)		
HI 101-102 or HI 201-202 (6)		
PY 201 (3)		
Area V. Additional Requirements		23
.....		
BI 307 (4)		28-55 *BI 111 (4,
CH 111 and 111 L(4)		
CH 112 and 112L (4)		
Electives (0-11)		
Remaining requirements to bring total to 23 semester hours (from teaching field and electives)		
Must complete ED 299 and PY 201 if not taken in Area IV (0-6)		
TEACHING FIELD-GENERAL BIOLOGY		64
NOTE: Students may take only ten hours of professional education courses prior to formal admission		
to teacher education: ED 292, ED 299, ED 331, and EEX 340. *		
Required if not taken in Area V.		

Business Education
(SBE/NCATE Approved)

<i>Course</i>	<i>Credit</i>
A. General Studies Component:	41 For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:
Area IV.	
tED 299 (3)	
HI 101-102 or HI 201-202 (6)	
PY 201 (3)	
Area V. Additional Requirements	23 AC 291 (3), AC 292 (3), BL 240 (3), CIS 125 (3), EC251 (3)Electives (0-8)
Remaining requirements to bring total to 23 semester hours (from teaching field and electives)	
Must complete ED 299 and PY 201 if not taken in Area IV (0-6)	

64

TEACHING

*AC 291 (3), *AC 292 (3), *BL 240 (3), *CIS 125 (3), CIS 201 or CIS 225 or CIS 483 (3), CIS 240 (3), CIS 350 (3), CIS 365 (3), CIS 375 (3), CIS 425 (3), CIS 435 (3), CIS 470 (3), CIS 475 (3), CIS 480 (3), CIS 495 (3), MG 482 (3)

General Chemistry
(SBE/NCATE Approved)

<i>Course</i>	<i>Credit</i>
A. General Studies Component:	41 For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:
Area III.	
CH 111 and 111 L(4)	
CH 112 and 112L (4)	
MA 112, 121 or 125 (3-4)	
Area IV.	
tED 299 (3)	
HI 101-102 or HI 201-202 (6)	
PY 201 (3)	
Area V. Additional Requirements	23 CH 321 and 321 LW (4)
MA 121, 122 or 126 (4-6)	
PH251 (5)	
PH252 (5)	
Electives (0-15)	
Remaining requirements to bring total to 23 semester hours (from teaching field and electives)	
Must complete ED 299 and PY 201 if not taken in Area IV (0-6)	

64

TEACHING FIELD - GENERAL CHEMISTRY 26-52 CH 111 and 111L (4), CH 112 and 112L (4), CH 311 and 311L (5), CH 312 and 312L (5), CH 321 and 321 LW (5), CH 322 and 322LW (4), CH 341 and 341 L(4), *CIS 110, *120, *125, or *155 (3), MA 112, 121 and 122, or MA 125 and 126 (8-9), *PH 251 (5), *PH 252 (5)

t The CLEP examination may be taken for this course. *
Required if not taken in Area V.

English/Language Arts (SBE/NCATE Approved)	
Course	Credit
A. General Studies Component	41
For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:	
Area II.	
TH 210(3)	
Area IV.	
tED 299 (3)	
HI 101-102 or HI 201-202 (6)	
PY 201 (3)	
Area V. Additional Requirements	23
COM 220(3)	
CS 110(3)	
TH 210 (if not taken in Area II) (0-3)	
Electives (8-17)	
Remaining requirements to bring total to 23 semester hours (from teaching field and electives)	
Must complete ED 299 and PY 201 if not taken in Area IV (0-6)	
	64
TEACHING FIELD - ENGLISH/LANGUAGE ARTS.....	36-42
*COM 220 (3), COM 316 (3), COM 330 (3), COM 368 (3), EN 306 (3), EN 311 (3), EN 312 (3), EN 321 (3), EN 322 (3), EN 324 (3), EN 341 W(3), EN 403 (3), EN 443 (3), "TH 220(3)	
Successful completion of the English exit examination is required of all students choosing the English/Language Arts teaching field.	

Family and Consumer Sciences (SBE/NCATE Approved)	
Course	Credit
A. General Studies Component:	41 For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:
Area IV.	
tED 299 (3)	
HI 101-102 or HI 201-202 (6)	
PY 201 (3)	
Area V. Additional Requirements	23 HES 241 (3)
HES 242 (3)	
HES 342 (3)	
Electives (8-14)	
Remaining requirements to bring total to 23 semester hours (from teaching field and electives) Must take ED 299 and PY 201 if not taken in Area IV (0-6)	
	64
TEACHING FIELD - FAMILYAND CONSUMER SCIENCE	48 HES 100 (3), "HES 241 (3), "HES 242 (3), HES 261 (3), HES 341 W(3), *HES 342 (3), HES 353 (3), HES 362 (3), HES 366 (3), HES 375 (3), HES 400 (3), HES 422 (3), HES 441 (3), HES 443 (3), HES 455 (3), HES 462 (3)

t The CLEP examination may be taken for this course. *
Required if not taken in Area V.

<i>*French</i>	
<i>Course (SBE/NCATE Approved)</i>	<i>Credit</i>
A. General Studies Component: 41	
<i>For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:</i>	
Area II.	
AR 170 (3)	
COM201 (3)	
EN 231 and 232 or EN 233 and 234 (6)	
Area III.	
MA 112 (3)	
8 hours of approved science	
Area IV.	
tED 299 (3) HI	
101-102 (6) PY	
201 (3)	
Area V. Additional Requirements	23
14 hours in a second language	
FL 100 (3)	
FL 101, FL 301 or FL 302, SP 103 (3) GE	
102 (3)	
TEACHING FIELD - FRENCH 33-53	
<i>*FL 100 (3), *FL 101, *FL 301 or *FL 302 (3), FL 498 (1), *14 hours in a second language (14), tFR 101, 111 (4), tFR 102, 112 (4), tFR 201 (3), tFR 202 (3), FR 350 (3), FR 351 (3), FR 352 (3), *SP 103, nine hours of French electives at the 400 level (9)</i>	

<i>General Science</i>	
<i>Course (SBE/NCATE Approved)</i>	<i>Credit</i>
A. General Studies Component: 41	
<i>For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:</i>	
Area III.	
BI 111 (4) or 112 (4)	
CH 111 and CH 111 L(4)	
MA 125 (4)	
Area IV.	
ttED 299 (3)	
HI 101-102 or HI 201-202 (6)	
PY 201 (3)	
Area V. Additional Requirements	23 CH 112 and
112L (4)	
ES 131 (4)	
MA 126 (4)	
PH251 (5)	
Electives (0-6)	
<i>Remaining requirements to bring total to 23 semester hours (from teaching field and electives) Must take ED 299 and PY 201 if not taken in Area IV (0-6)</i>	

NOTE: Students who have attended institutions outside the United States must have their transcripts evaluated by the World Education Services, Inc. (WES). (See "International Students," Admission to the University)

t Students with two or more high school units in this language may consider satisfying this requirement through CLEP credit.

tt The CLEP examination may be taken for this course.

** Required if not taken in Area V.*

Course	Credit
TEACHING FIELD - GENERAL SCIENCE	33-54
*BI 111 (4), *BI 112 (4), BI 305 (4), BI 306 (4), *CH 111 and 111 L(4), *CH 112 and 112L (4), CH 311 and 311L (5), CS 110 or higher (3), *ES 131 (4), *ES 132 (4), *MA 125 (4), *MA 126 (4), *PH 251 (5), *PH 252 (5), one course from among BI 307, BI 312, BI 421, CH 312 and 312L, ES 245, PH 125 or PH 356W (3-5), one course with accompanying lab from among CH 321 and 321LW, CH 322 and 322LW, or CH 341 and 341 L(4-5), and one course from among ES 330, 345, 375, 421W, 431 and 441 (3-4); PH 343 (4)	

Geography
(SBE/NCATE Approved)

Course	Credit
A. General Studies Component:	41
For general studies requirements and additional requirements for UNA students refer to Academic Procedures and Requirements.	
Education majors must complete:	
Area III.	
GE 111 (4)	
GE 112 (4)	
MA 112, 115 or 125 (3-4)	
Area IV.	
tED 299 (3)	
HI 101-102 or HI 201-202 (6) PY	
201 (3)	
Area V. Additional Requirements	23
GE 225 (3)	
GE 260 (3)	
Microcomputer elective (3)	
Natural science elective (4)	
Statistics elective (3)	
Electives (0-4)	
Remaining requirements to bring total to 23 semester hours (from teaching field and electives)	
Must take ED 299 and PY 201 if not taken in Area IV (0-6)	

TEACHING FIELD-GEOGRAPHY 24-41 *GE 102 (3), *GE 1

t The CLEP examination may be taken for this course. *
Required if not taken in Area V.

*German
(SBE/NCATE Approved)

Course	Credit
A. General Studies Component:	41
For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:	
Area II.	
AR 170 (3)	
COM201 (3)	
EN 231 and 232 or EN 233 and 234 (6)	
Area III.	
MA 112 (3)	
8 hours of approved science	
Area IV.	
ttED 299 (3) HI	
101-102 (6) PY	
201 (3)	
Area V.	
14 hours in a second language FL	
100 (3)	
FL 101, FL 301 or FL 302, SP 103 (3) GE	
102 (3)	
TEACHING FIELD-GERMAN 33-53	
*FL 100 (3), *FL 101, *FL 301 or *FL 302 (3), FL 498 (1), tGR 101, 111 (4), tGR 102, 112 (4), tGR 201 (3), tGR 202 (3), GR 350 (3), GR 351 (3), GR 352 (3), *SP 103, *14 hours in a second language (14), nine hours of German electives at the 400 level (9)	

History
(second area of certification required)
(SBE/NCATE Approved)

Course	Credit
A. General Studies Component: 41	
For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:	
Area IV.	
ttED 299 (3)	
HI 101-102 (6)	
PY 201 (3)	
Area V. Additional Requirements	23 HI 201 (3)
HI 202 (3)	
Electives (11-17)	
Remaining requirements to bring total to 23 semester hours (from teaching field and electives) Must take ED 299 and PY 201 if not taken in Area IV (0-6)	

NOTE: Students who have attended institutions outside the United States must
have their transcripts evaluated by the World Education Services, Inc. (WES).
(See "International Students," Admission to the University)

64

t Students with two or more high school units in this language may consider satisfying this requirement
through CLEP credit.

tt The CLEP examination may be taken for this course.

* Required if not taken in Area IV or V.

Course	Credit
TEACHING FIELD - HISTORY	27-39
CS 100, 110 or higher (3), *HI 101 (3), HI 102 (3), *HI 201 (3), *HI 202 (3), HI 301W (3), HI 361 (3), 18 hours of 300-400 level history electives, including at least nine hours in non-United States history (18)	
Marketing (SBE/NCATE Approved)	
Course	Credit
A. General Studies Component: 41 For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:	
Area IV.	
tED 299 (3)	
HI 101-102 or HI 201-202 (6)	
PY 201 (3)	
Area V. Additional Requirements	23 AC 291 (3), AC 292 (3),
Remaining requirements to bring total to 23 semester hours (from teaching field and electives)	
	64
TEACHING FIELD - MARKETING	48
*AC 291 (3), *AC 292 (3), AC 396 or *CIS 125 (3), *BL 240 (3), *CIS 100 (3), CIS 240 (3), CIS 365 (3), CIS 435 (3), CIS 475 (3), MG 330 (3), MG 482 (3), MK 360 (3), MK 363 (3), MK Must complete ED 299 and PY 201 if not taken in Area IV (0-6)	

Mathematics (SBE/NCATE Approved)	
Course	Credit
A. General Studies Component:	41
For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:	
Area IV.	
tED 299 (3)	
HI 101-102 or HI 201-202 (6)	
PY 201 (3)	
Area V. Additional Requirements	23 CS 110 or 155 or 210 (3)
MA 125 (if not taken in Area III) (0-4) MA 126 (4)	
MA 227 (4)	
	64
TEACHING FIELD - MATHEMATICS	21-45
*CS 155 or 210 (3), *tMA 112 and 113 (6) or *MA 115 (4), *MA 125 (4), *MA 126 (4), *MA 227 (4), *MA 238 (3), MA 245 (3), MA 345 or 447 (3), MA 421 (3), MA 425 (3), MA 431 (3), MA 437 (3), MA 451 (3), MA 471 W(3) Electives to bring total hours of program to 128	

t The CLEP examination may be taken for these courses. *
Required if not taken in Area IV or V.

Electives (2-12)

*Remaining requirements to bring total to 23 semester hours (from teaching field and
electives) Must take ED 299 and PY 201 if not taken in Area IV (0-6)*

Physics
(second area of certification required)
(SBE/NCATE Approved)

Course	Credit
A. General Studies Component:.....	41
For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:	
Area IV.	
tED 299 (3)	
HI 101-102 or HI 201-202 (6)	
PY 201 (3)	
Area V. Additional Requirements	23
CH 111 and laboratory (if not taken in Area III) (0-4)	
MA 125 (if not taken in Area III) (0-4)	
MA 126 (4)	
PH 251 (if not taken in Area III) (0-4) PH	
252 (5)	
Electives (0-14)	
Remaining requirements to bring total to 23 semester hours	
(from teaching field and electives)	
Must take ED 299 and PY 201 if not taken in Area IV (0-6)	
TEACHING FIELD - PHYSICS	64
30 *PH 251 (5), *PH 252 (5), PH 343 (4), PH 349 (3),	
PH 356W (4), PH 380 (3), PH 447 (3) or PH 471 (3), PH Electives from junior/senior courses	
approved by adviser (3)	

Social Science
(SBE/NCATE Approved)

Course	Credit
A. General Studies Component:.....	41
For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Education majors must complete:	
Area III.	
GE 111-112 (8)	
MA 110, 112, 115 or 125 (3-4) Area	
IV.	
GE 102 (3)	
HI 101 (3) and 102 (3) PY	
201 (3)	
Area V. Additional Requirements	23
EC 251 (3)	
tED 299 (3) HI 201 (3) HI 202 (3) PS 241 (3)	
PS 243 (3) SO 221 (3) Electives (2)	
Remaining requirements to bring total to 23 semester hours	
(from teaching field and electives)	

t The CLEP examination may be taken for this course. * Required if not taken in Area IV or V.

Course	Credit
TEACHING FIELD - SOCIAL SCIENCE	71
CS 100, 110 or higher (3), *EC 251 (3), EC 473 (3), *GE 102 (3), *GE 111 (4), *GE 112 (4), *HI 101 (3), *HI 102 (3), *HI 201 (3), *HI 202 (3), HI 361 (3), *PS 241 (3), *PS 243 (3), *SO 221 (3), six hours of 300-400 level geography electives (6), nine hours of 300-400 level history electives, including at least six hours in non-United States history (9), PS 477 (3), SO 350 or 423 (3), six hours of 300-400 level social science electives selected from among the fields of economics, geography, history, political science, psychology or sociology (6)	
*Spanish (SBE/NCATE Approved)	
Course	Credit
A. General Studies Component:	41
For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements.	
Education majors must complete:	
Area II.	
COM201 (3)	
EN 231 and 232 or EN 233 and 234 (6)	
Area III.	
MA 112 (3)	
8 hours of approved science	
Area IV.	
ttED 299 (3) HI	
101-102 (6) PY	
201 (3)	
Area V.	
14 hours in a second language FL	
100 (3)	
FL 101, FL 301 or FL 302, SP 103 (3) GE	
102 (3)	
TEACHING FIELD-SPANISH	33-53
*FL 100 (3), *FL 101, *FL 301 or *FL 302 (3), FL 498 (1), tSP 101, tSP 102, 112 (4), tSP 103, 111 (4), *tSP 201 (3), tSP 202 (3), SP 350 (3), SP 351 (3), SP 352 (3), *14 hours in a second language (14), nine hours of Spanish electives at the 400 level (9)	

NOTE: Students who have attended institutions outside the United States must have their transcripts evaluated by the World Education Services, Inc. (WES). (See "International Students," Admission to the University)

t Students with two or more high school units in this language may consider satisfying this requirement through CLEP credit.

tt The CLEP examination may be taken for this course.

* Required if not taken in Area III, IV or V.

DEPARTMENT OF COUNSELOR EDUCATION

Chair: Dr. Paul Baird, 415 Stevens Hall, 765-4667

Faculty: Dr. Loew, Dr. Pearson

The Department of Counselor Education offers master's degree programs for students who have completed bachelor's degrees and are preparing themselves for employment as school or community counselors. The Master of Arts in Education degree program (School Counseling) prepares students to serve effectively as elementary and secondary school counselors and meets the requirements for Alabama School Counselor certification. The Master of Arts degree program (Community Counseling) qualifies students for a variety of counseling positions in the community and meets the coursework requirements for Licensed Professional Counselor status in Alabama. Please consult the UNA Graduate Catalog, the UNA website or the Chair of the Department of Counselor Education for additional information regarding the degree programs in counseling.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Chair: Dr. Joyce McIntosh, 310 Flowers Hall, 765-4377

Faculty: Dr. Colligon, Dr. Hall, Mr. Long, Mrs. Price, Dr. Teaff, Dr. Tunell

The Department of Health, Physical Education, and Recreation offers a program in physical education leading to the Bachelor of Science degree and qualification for recommendation for the Alabama Class B Professional Certificate at the P-12 level in Physical Education.

The Department of Health, Physical Education and Recreation offers a non-teaching major program in health, physical education and recreation leading to the Bachelor of Science degree in Exercise Science, Fitness Management, Health Promotion and Recreation. A traditional non-teaching major is also offered. The department also offers minors in Exercise Science, Fitness Management, Health, Health Promotion, Physical Education, Recreation, and Coaching applicable to other programs requiring a supportive minor field. In addition, the HPER Department offers physical education activities applicable to the general studies component requirements in all university programs and are available as elective credit to all students who wish to develop skills for personal pleasure or professional interest.

All students majoring in Health, Physical Education, and Recreation in both the certification and the non-certification programs are required to successfully complete an exit examination. The date for the examination will be announced each semester.

* Elective is to be chosen from Individual Activities (2) and Team Sports (1).

Course	Credit
<i>Choose nine hours from the following:</i>	
<i>Exercise Science</i>	
<i>Exercise Testing and Prescription II (PE 494)</i>	3
<i>Cardiopulmonary Rehabilitation (PE 495)</i>	3
<i>Exercise Leadership (PE 496)</i>	<u>3</u>
	9
<i>or</i>	
<i>Health</i>	
<i>Human Sexuality (HED 406)</i>	3
<i>Consumer Health (HED 408)</i>	3
<i>Drugs in American Society (HED 424)</i>	<u>3</u>
	9
<i>or</i>	
<i>Health Promotion</i>	
<i>Health Promotion (HED 410)</i>	3
<i>Public/Community Health (HED 422)</i>	3
<i>Behavioral Modification Interventions (HED 430)</i>	<u>3</u>
	9
<i>or</i>	
<i>Recreation</i>	
<i>Introduction to Parks and Recreation (PE 340)</i>	3
<i>Recreational Programs (PE 341)</i>	3
<i>Therapeutic Recreation (PE 343)</i>	3
<i>Community Recreation and Parks Administration (PE 345)</i>	3
<i>Outdoor Education (PE 441)</i>	3
<i>Program Planning in Recreation (PE 445)</i>	3
<i>Recreational Leadership (PE 490)</i>	<u>3</u>
	9
<i>or</i>	
<i>Coaching</i>	
<i>Theory and Problems in Coaching Sports (PE 370)</i>	3
<i>Coaching Practicum (PE 371)</i>	3
<i>Psychology of Coaching (PE 421)</i>	<u>3</u>
	9
<i>Prescribed Supporting Course:</i>	
<i>Nutrition (HES 342) or Nutrition and Human PerFormance (PE 425)</i>	
	<u>3</u>
<i>3 Approved Minor Component</i>	
<i>(other than those offered in HPER)</i>	18-24
<i>OPTION II: FITNESS MANAGEMENT Major Component:</i>	
<i>*PE Activity Elective</i>	1
<i>Foundations of Health (HED 213)</i>	3
<i>Human Sexuality (HED 406)</i>	3
<i>Consumer Health (HED 408)</i>	<u>3</u>

* Elective is to be chosen from Individual Activities (2) and Team Sports (1).

Course	Credit
Drugs in American Society (HED 424)	3
Internship/Clinical/Field Experiences (HED 498).....	6
Officiating Sports (PE 275)	1
Methods of Physical Education, 7-12 (PE 300).....	3
Kinesiology (PE 352)	3
Physiology of Exercise (PE 353W)	3
Exercise Testing and Prescription I (PE 402)	3
Tests and Measurement in Physical Education (PE 451)	<u>3</u>
	35

Prescribed Supporting Courses:

Nutrition (HES 342) or Nutrition and Human Performance (PE 425) ... 3

Gerontology (SO 403) 3
6

Business Administration Minor:

Accounting Concepts I (AC 291)	3
Accounting Concepts II (AC 292)	
or Principles of Microeconomics (EC 252)	3
Principles of Macroeconomics (EC 251)	3
Principles of Management (MG 330)	3
Small Business Management (MG 494 or MK 494)	3
Marketing (MK 360).....	<u>3</u>
	18

OPTION III: RECREATION*Major Component:*

*PE Activity Elective.....	1
*PE Activity Elective.....	1
*PE Activity Elective.....	1
*PE Activity Elective.....	1
Officiating Sports (PE 275)	1
Introduction to Parks and Recreation (PE 340).....	3
Recreation Programs (PE 341)	3
Therapeutic Recreation (PE 343)	3
Community Recreation and Parks Administration (PE 345)	3
Outdoor Education (PE 441)	3
Program Planning in Recreation (PE 445)	3
Recreational Leadership (PE 490).....	3
Recreation Internship (PE 498)	<u>6</u>
	18

Prescribed Supporting Courses:

Drugs in American Society (HED 424)	3
Sociology of Leisure and Recreation (SO 320)	3
Gerontology (SO 403)	<u>3</u>
	9

Approved Minor Component

(other than those offered in HPER)18-24

* Elective is to be chosen from Individual Activities and Team Sports (PE 106, PE 108, PE 109, PE 110, PE

119, PE 123, PE 125, PE 132, PE 134, PE 136, and PE 142)

OPTION IV: EXERCISE SCIENCE

Course	Credit
Major Component:	
Kinesiology (PE 352)	3
Physiology of Exercise (PE 353)	3
Exercise Testing and Prescription I (PE 402)	3
Nutrition and Human Performance (PE 425)	3
Tests and Measurement (PE 451)	3
Exercise Testing and Prescription II (PE 494).....	3
Cardiopulmonary Rehabilitation (PE 495)	3
Exercise Leadership (PE 496)	3
Internship/Clinical/Field Experiences (PE 498)	
.....	6_
—	30
Prescribed Supporting Courses:	
Business Applications (CIS 125)	3
Medical Sociology (SO 307)	3
Choose 3 hours from:	
Consumer Health (HED 408)	3
Health Promotion (HED 410)	3
Health and Aging (HED 420)	3
Drugs in American Society (HED 424)	3
Behavioral Modification Interventions (HED 430)	
.....	3_
—	9
Biology Minor	22-25

OPTION V: HEALTH PROMOTION

Major Component:	
Foundations of Health (HED 213)	3
Consumer Health (HED 408)	3
Health Promotion (HED 410)	3
Health and Aging (HED 420)	3
Public/Community Health (HED 422)	3
Behavioral Modification Interventions (HED 430)	3
Kinesiology (PE 352)	3
Physiology of Exercise (PE 353)	3
Exercise Testing and Prescription (PE 402)	3
Nutrition and Human Performance (PE 425)	3
Internship/Clinical/Field Experiences (PE 498)	
.....	6_
—	30
Prescribed Supporting Courses:	

Business Applications (CIS 125)	3
Choose 3 hours from:	
Desktop Publishing (COM 410).....	3
Educational Technology (ED 481)	
.....	3
—	6
Sociology Minor	21

REQUIREMENTS FOR A MINOR IN COACHING

Course	Credit
Introduction to the History, Principles, and Philosophy of HPER (PE 221)	3
First Aid (PE 233)	3
Officiating Sports (PE 275)	1
Kinesiology (PE 352) or Physiology of Exercise (PE 353W)	3
Theories and Problems in Coaching Sports (PE 370)	3
Coaching Practicum (PE 371)	3
Athletic Training and Conditioning (PE 378)	3
Psychology of Coaching (PE 421)	3
Motor Learning (PE 450)	3
.....	3
Total	25

REQUIREMENTS FOR A MINOR IN EXERCISE SCIENCE

Course	Credit
Kinesiology (PE 352)	3
Physiology of Exercise (PE 353)	3
Exercise Testing and Prescription I (PE 402)	3
Nutrition and Human Performance (PE 425)	3
Exercise Testing and Prescription II (PE 494).....	3
Cardiopulmonary Rehabilitation (PE 495)	3
Exercise Leadership (PE 496)	3
.....	3
Total	21

REQUIREMENTS FOR A MINOR IN FITNESS MANAGEMENT

Course	Credit
Concepts of Wellness (HED 155)	1
Nutrition (HES 342) or Nutrition and Human Performance (PE 425) . . .	3
Weight Training (PE 102)	1
Walking/Jogging/Running (PE 105).....	1
Aerobic Dance (PE 140)	1
First Aid (PE 233)	3
Kinesiology (PE 352).....	3
Physiology of Exercise (PE 353W)	3
Athletic Training and Conditioning (PE 378)	3
Exercise Testing and Prescription I (PE 402)	3

Management of HPER and Athletics (PE 443)

..... 3_

— Total

25

REQUIREMENTS FOR A MINOR IN HEALTH

Course	Credit
Concepts of Wellness (HED 155)	1
Foundations of Health (HED 213)	3
Human Sexuality (HED 406)	3
Consumer Health (HED 408)	3
Drugs in American Society (HED 424)	3
Nutrition (HES 342) or Nutrition and Human Performance (PE 425) . . .	3
First Aid (PE 233)	3
Management of HPER (PE 443)	3
.....	3
Total	22

REQUIREMENTS FOR A MINOR IN HEALTH PROMOTION

Course	Credit
Concepts of Wellness (HED 155)	1
Foundations of Health (HED 213)	3
Consumer Health (HED 408)	3
Health Promotion (HED 410)	3
Health and Aging (HED 420)	3
Public/Community Health (HED 422)	3
Behavioral Modification Interventions (HED 430)	3
Nutrition and Human Performance (PE 425)	3
.....	3
Total	22

REQUIREMENTS FOR A MINOR IN PHYSICAL EDUCATION

Course	Credit
Foundations of Health (HED 213)	3
Introduction to the History, Principles, and Philosophy of HPER (PE 221)	3
First Aid (PE 233)	3
Physiology of Exercise (PE 353W)	3
Management of HPER and Athletics (PE 443)	3
Physical Education Activities to include Aquatics (1) Weight Training and Conditioning (PE 102) (1) Walking/Jogging/Running (PE 105) (1)	3
Three additional hours from one of the following: Kinesiology (PE 352) or Exercise Testing and Prescription I (PE 402)	3
Three additional hours from one of the following: Introduction to Parks and Recreation (PE 340) or Recreational Programs (PE 341) or Therapeutic Recreation (PE 343) or Community Recreation and Parks Administration (PE 345) or	

Outdoor Education (PE 441) or Program Planning in Recreation (PE 445) or Recreational Leadership (PE 490)	
.....	3_
—	
Total	24

REQUIREMENTS FOR A MINOR IN RECREATION

Course	Credit
History, Principles and Philosophy of HPER (PE 221)	3
Officiating Sports (PE 275)	1
Management of HPER (PE 443)	3
Physical Education Activities to include	
Aquatics (1)	
Dance (1)	
Fitness Activities (1)	
Individual or Dual Activities (1)	
Team Sports (1).....	5
Nine additional hours from the following (<i>choose 3 courses</i>):	
Introduction to Parks and Recreation (PE 340)	
Recreational Programs (PE 341)	
Therapeutic Recreation (PE 343)	
Community Recreation and Parks Administration (PE 345)	
Outdoor Education (PE 441)	
Program Planning in Recreation (PE 445)	
Recreational Leadership (PE 490)	9
Total	21

DEPARTMENT OF HUMAN ENVIRONMENTAL SCIENCES

Chair: Dr. M. Kay Abbott, 111 Floyd Hall, 765-4313

Faculty: Mr. Bunn, Mrs. Wilson

The Department of Human Environmental Sciences offers a subject field major in family and consumer science leading to the Bachelor of Science in Education degree and qualification for recommendation for the Alabama Class B Secondary Professional Certificate at the 6-12 level. The department also offers a nonteaching major program in human environmental sciences with concentrations in four areas of study. These concentrations are merchandising, interior design, foods and nutrition, and family resource management. The Department of Human Environmental Sciences provides minor programs in human environmental sciences, foods and nutrition, and retailing and clothing which may be applied for minor field requirements in programs offered in other departments of the University.

The programs of the department are designed to serve students who desire to prepare for advanced study in graduate school leading to teaching, research, and professional positions; or for positions for which preparation in human environmental sciences is appropriate.

The concentration in merchandising provides preprofessional preparation for careers in management, marketing, and retail buying.

The concentration in interior design provides theory and application in meeting diverse design needs. The National Kitchen and Bath Association (NKBA) endorses the kitchen and bathroom design program.

The concentration in foods and nutrition is designed for students who wish to emphasize the applied and theoretical aspects of human nutrition and food production.

The concentration in family resource management is designed for students who wish to pursue study in the field of consumer economics.

In its curricula, the Department of Human Environmental Sciences provides numerous opportunities for credit through supervised field experiences.

All students majoring in Human Environmental Sciences in both the certification and non-certification programs are required to take the departmental exit exam.

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE HUMAN ENVIRONMENTAL SCIENCES

AREAS OF STUDY

Course	Credit
A. General Studies Component:	41
For general studies requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements.	
HES majors must complete:	
Area V: Additional Requirements:	23
Computer Information Systems 125 (3)	
Human Environmental Sciences 242 (3)	
Human Environmental Sciences 342 (3)	
*HES Elective (3)	
Remaining requirements to bring total to 23 semester hours	
B. Major Core Requirements:	64
Introduction to Human Environmental Sciences (HES 100) 3	
Introduction to Interior Design (HES 261) 3	
Textiles and Materials (HES 341 W) 3	
Senior Seminar (HES 400) 3	
Internship (HES 427) 6	
Family Development (HES 443) 3	
C. Concentration in Merchandising:	21
Textile Product Analysis (HES 241) 3	
Historic Costume (HES 320) 3	
Merchandising (HES 321) 3	
Visual Presentation I (HES 322) 3	

* For interior design majors, this elective is satisfied in the major.

Course	Credit
<i>Social and Cultural Aspects of Clothing (HES 325)</i>	3
<i>Textile Fiber Theory (HES 340)</i>	3
<i>Professional Dress (HES 422)</i>	3
<i>Advanced Clothing (HES 441)</i>	3
<i>HES Elective</i>	<u>6</u>
	30
<i>Concentration in Interior Design:</i>	
<i>Technical Drawing for Interior Documentation (HES 264)</i>	4
<i>Space Planning for Interior Design (HES 274)</i>	4
<i>Visual Presentation I (HES 322)</i>	3
<i>Visual Presentation II/CADD for Interior Design (HES 343)</i>	4
<i>Lighting and Mechanical Systems (HES 354)</i>	3
<i>Interior Design I (HES 364)</i>	4
<i>Interior Design II (HES 365)</i>	4
<i>History of Interiors (HES 366)</i>	3
<i>Interior Design Business Practices, Codes, and</i>	
<i>Accessibility (HES 461)</i>	3
<i>Senior Interior Design Studio (HES 465)</i>	<u>4</u>
	36
<i>Concentration in Foods and Nutrition:</i>	
<i>Visual Presentation I (HES 322)</i>	3
<i>Cultural Foods (HES 353)</i>	3
<i>Food Service Systems Management (HES 355)</i>	3
<i>Child Development (HES 362)</i>	3
<i>Food Safety and Sanitation (HES 433)</i>	3
<i>Therapeutic Dietetics (HES 442)</i>	3
<i>Quantity Food Production (HES 455)</i>	3
<i>Family and Consumer Sciences in the School and</i>	
<i>Community (HES 462)</i>	3
<i>HES Electives</i>	<u>6</u>
	30
<i>Concentration in Child Development:</i>	
<i>Accounting Concepts I (AC 291)</i>	3
<i>Creative Arts for Children (ECE 312)</i>	3
<i>Human Growth and Development (ED 299)</i>	3
<i>Introduction to Students with Disabilities (EEX 340)</i>	3
<i>Child Development (HES 362)</i>	3
<i>Quantity Food Production (HES 455)</i>	3
<i>Family and Consumer Sciences in the School</i>	
<i>and Community (HES 462)</i>	3
<i>HES Electives</i>	<u>6</u>
<i>First Aid (PE 233)</i>	<u>3</u>
	30
<i>D.*Approved Minor</i>	18
<i>E. General Elective hours, if required, to bring total to 128.</i>	

Interior design students must select an art minor and include Art 232.

REQUIREMENTS FOR A MINOR IN
HUMAN ENVIRONMENTAL SCIENCES

Course	Credit
Human Environmental Sciences 241	3
Human Environmental Sciences 242	3
Human Environmental Sciences 261	3
Human Environmental Sciences Electives (300-400 level)	⁹
Total	18

REQUIREMENTS FOR A MINOR IN FOODS AND NUTRITION

Course	Credit
Human Environmental Sciences 242	3
Human Environmental Sciences 342	3
Human Environmental Sciences 353	3

Human Environmental Sciences 355	3
Human Environmental Sciences 442	3
Human Environmental Sciences 455	3__
Total	18

REQUIREMENTS FOR A MINOR IN RETAILING AND CLOTHING

Course	Credit
Human Environmental Sciences 241	3
Human Environmental Sciences 320 or 325	3
Human Environmental Sciences 321	3
Human Environmental Sciences 322	3
Human Environmental Sciences 341	3
Human Environmental Sciences 441	3__

COLLEGE OF NURSING AND ALLIED HEALTH

Dr. Birdie I. Bailey, Dean

210 Stevens Hall

765-4311

MISSION:

The mission of the College of Nursing (CON) is to provide a quality educational program which prepares students for a career in professional nursing. The primary intent of the College of Nursing is to provide an intellectual climate, which promotes independent thinking and a free and open exchange of ideas. Educational experiences in nursing science build upon the core curriculum and prepare nursing students to utilize the nursing process to address the needs of individuals, families, groups, and communities in society. The College of Nursing strives to effect positive changes in the health care of the community by producing graduates who have developed a desire for life-long learning. As a professional nursing program within a university setting, the College of Nursing is guided by the general philosophy of the University and the standards of the nursing profession. The College of Nursing is approved by the Alabama Board of Nursing and accredited by the National League for Nursing Accrediting Commission.

PHILOSOPHY

To fulfill the purpose of providing a basic education in professional nursing, the faculty developed the following philosophical statements:

Person. People are unique beings who, as integrated wholes, react to and interact with their environment. All people have universal and individualized developmental requirements/needs. Additionally, alterations in wellness may impose health deviation requirements. People function biologically, symbolically and socially and can learn to meet requirements/ needs.

Nursing. Nursing is a caring profession consisting of practitioners who utilize theory and knowledge to design nursing systems to address the actual or potential requirements/needs of persons, groups, or communities. The nurse utilizes the nursing process, emphasizing primary prevention strategies, critical thinking skills, communication techniques, and biopsychosocial theories, to deliver developmentally, culturally, ethically and environmentally appropriate research based practice. As a licensed health professional, the nurse continually updates knowledge by attending continuing education classes and/or pursuing advanced study in order to meet the challenges of an ever-changing health care delivery system.

Health. Health is a dynamic process that exists when a person integrates aspects of physical, psychological, interpersonal, and social (beliefs, activities, practices, and principles) to maintain a state of wellbeing. Health varies with the person, the circumstance, and the ability to meet one's own health care needs/requirements. Health maintenance includes those primary prevention strategies that promote and maintain optimal wellness and prevent illness.

Learning. Learning is a dynamic process involving the acquisition of knowledge, attitudes, skills, and insights acquired through interaction with the environment. Learning is active and relates directly to individual attributes. Learning is maximized in a non-threatening environment that allows for student/teacher interaction. A dynamic learning environment encourages critical thinking, problem solving which allows faculty open communication and analysis of learning situations, and begins with planned experiences.

Education. Education is the sum total of life's experiences derived from a process of knowing, which includes content as well as a style of thinking. Nursing education consists of preprofessional and professional components sequenced according to social, cultural, economic, and political conditions. Nursing education provides a foundation of common knowledge, skills, and insights based on general studies to meet the students' needs for academic advancement, professional attainment, responsible citizenship, and personal fulfillment.

PROGRAM GOALS:

Graduates of the baccalaureate program in nursing will

1. function as beginning practitioners in professional nursing; 2. possess a foundation for graduate study;
3. synthesize knowledge from a broad educational foundation upon which professional nursing practice is based;
4. communicate and collaborate with members of the health team and other interested groups in identifying and meeting the health needs of individuals, families and communities;
5. demonstrate an understanding of the need for continuous personal and professional growth;
6. possess basic knowledge about research and its application to practice;
7. develop interpersonal and technological skills necessary to assume leadership roles within the BSN scope of practice.

Furthermore, the College of Nursing and Allied Health achieves its mission by:

8. recruiting and retaining a qualified and diverse faculty.

Upon satisfactory completion of the program the student is awarded the Bachelor of Science in Nursing degree and may be eligible to take the state licensing examination for qualification as a registered nurse (RN).

POLICIES:

- The College of Nursing and Allied Health retains the right to make modifications in its program/policies as deemed necessary by its faculty based on recommendations and mandates from the Alabama Board of Nursing and the National League for Nursing Accrediting Commission. Students currently enrolled in the nursing program will be required to adhere to any modifications made during their enrollment as a nursing major.

- Students are expected to adhere to standards of professional conduct as described in the American Nurses Association Code of Ethics for Nurses and the Code of Conduct delineated in the *UNA Catalog* and *Nursing Student Handbook*.
- To progress in the professional nursing courses, students must possess a functional level of competency to perform the basic skills of a professional nurse. Skills include (but are not limited to):
 - Hearing ability (e.g., must be able to discern various health assessment sounds with a stethoscope);
 - Visual ability (e.g., must be able to read small print on medication vials);
 - Fine and gross motor skills (e.g., must be able to walk); and
 - Critical thinking (e.g., must be able to provide safe, ethical care in a variety of health care settings).
- Students may be dismissed from the nursing program if disqualified to take the Alabama Board of Nursing Licensing Exam as identified in the "Grounds for denial" statements by the Board (Refer to: Code of Alabama, 1975, Section 34-21-25; Alabama Board of Nursing Administrative Code 610-X-8-.01 and 610-X-8-.05).
- Students must maintain annual CPR certification, professional liability insurance, and proof of physical examination when enrolled in clinical nursing courses (insurance must be purchased through the nursing office at UNA).
- Students must adhere to the Centers for Disease Control and the Occupational Safety Hazards Association (OSHA) guidelines.
- Students must present current immunization records (including Hepatitis B series) before attendance in clinical activities. An administrative "unsatisfactory" will be issued to any student who fails to submit health requirements on time.
- An initial drug and annual tuberculosis (TB skin test) screening is required (A drug screening may be required by the College of Nursing faculty if the need is warranted).
- Standard achievement exams are given at various intervals throughout the nursing program at the student's expense.

ADMISSION:

Initial admission is based on requirements for admission to the University; however, admission to the University does not assure admission to the program in nursing. Requirements for admission to nursing courses are:

- Submit a formal application to the CON.
Applications are available February 1 for the fall admissions and must be submitted by March 1. Spring applicants must apply September 1 through October 1 of the

previous semester. Decisions for the fall and spring classes will be made by April and November, respectively, and depends on the College of Nursing Admission Committee's recommendation and space availability.

- Possess a minimum cumulative grade point average of 2.1 (4.0 scale) or better including a **C** or better in each physical and biological science course required for nursing completion of required lower-division coursework.

PROGRESSION/RETENTION:

Retention of students in the program is based on:

- Appropriate academic progress with a grade of **C (73)** or better in each professional nursing course and satisfactory in the clinical component of the course to receive a **C (73)** or better;
- Satisfactory completion of nursing courses in sequence. When a student receives a grade of less than **C (73)** or a clinical unsatisfactory, the student may not progress to any course until the failing grade is removed and/or the clinical is satisfactorily completed. A student who has failed a nursing course may repeat the failed course only once. A student in the nursing program can receive no more than one course failure throughout the nursing program.
- Students eligible to return to a nursing course after a withdrawal "W" or course failure "D/F" from a required nursing (NU) course will be readmitted to the course on a "space available" basis.
- Maintenance of 2.1 GPA throughout the nursing program.
- Once the student is "out of sync", he/she must adjust to any curriculum changes occurring at that time.

DISMISSAL:

After two course failures, the student is dismissed from the program.

READMISSION:

The student who has failed two nursing courses may petition the College of Nursing for readmission after a two-year period has passed since receiving the failing grades. Any readmitted student who earns a grade below C in a nursing course will be permanently dismissed from the program. Guidelines for readmission may be requested from the College of Nursing. Completed letters of petition for readmission must be received by March 15 and October 15 for fall and spring, respectively.

REGISTERED NURSES:

Registered nurses must submit official proof of a current license and may be admitted with advanced standing based on official transcripts of acceptable college work, evidence of graduation from a state-approved College of Nursing and official licensure verification.

DEPARTMENT OF NURSING

Faculty: Mrs. Aquadro, Mrs. Austin, Dr. Bobek, Dr. Bradford, Dr. Brown, Mrs. Cary, Mrs. Cramer, Mrs. Darby, Dr. Davis, Mrs. Graham, Dr. Leonard, Mrs. Malone, Dr. Rock, Dr. Rowe, Mrs. Wilson

REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN NURSING

Course	Credit
A. General Studies Component:	41
For General Studies Requirements and additional requirements for UNA students, refer to Academic Procedures and Requirements. Nursing majors must complete:	
Area III: Chemistry 101-102* or 111-112* Area	
IV: Education 299 and Psychology 201	
Area V: Additional Requirements	23
Biology 141-142 (8)	
Biology 307 (4)	
Elementary Statistics 147 (3)	
Human Environmental Sciences 342 (3)	
Remaining requirements to bring total to 23 semester hours	
	64
B. Major Core Requirements:	
Nursing 301	6
Nursing 302	6
Nursing 304	6
Nursing 305	3
Nursing 306	6
Nursing 308	3
Nursing 406	3
Nursing 407	6
Nursing 409	6
Nursing 410	6
Nursing 411	6
Nursing 414	3
	64
C. A minor is not required.	
D. General Elective hours, if required, to bring total to 128.	

*Course options: BI 101, 102, 111, 112, 305 or PH 101, 121, 241.

The following semester-by-semester schedule is recommended for the traditional student:

FRESHMAN YEAR			
First Semester		Second Semester	
Course	Credit	Course	Credit
BI 141 or CH 101	4	BI 142 or CH 102	4
EN 111	3	EN 112	3
H1101 or 201	3	H1102 or 202	3
MA110 or 112*	3	PY 201	3
Are all	3	Elective	3
	16		16

SOPHOMORE YEAR			
First Semester		Second Semester	
Course	Credit	Course	Credit
CH 101 or BI 141	4	BI 307	4
COM 201	3	CH 102 or BI 142	4
ED 299	3	EN 232	3
EN 231	3	H ES 342	3
MA 147	3	Electives	2
	16		16

JUNIOR YEAR			
First Semester		Second Semester	
Course	Credit	Course	Credit
NU 301	6	N U 304	6
N U 302	6	N U 306	6
N U 305	3	N U 308	3
Elective	1	Elective	1
	16		16

SENIOR YEAR			
First Semester		Second Semester	
Course	Credit	Course	Credit
N U 406W	3	N U 410	6
N U 407	6	NU 411	6
N U 409	6	N U 414	3
Elective	1	Elective	1
	16		16

The following is a list of courses required of students electing the on-line option of the RN-to-BSN Flex-Track program:

NU 302R	6 semester hours
NU 303R	3 semester hours
NU 305R	3 semester hours
NU 411 R	6 semester hours
NU 416R	6 semester hours
NU 418R	6 semester hours

* Course options: MA 113, 115, 125, 126, 227, 237 or 238.

GRADUATE STUDIES

The programs in graduate studies are organized under the Office of the Vice President for Academic Affairs and Provost, and are administered by the deans of the colleges in which the programs are offered under policies and procedures recommended by the Graduate Council and approved by the administration.

The following degree and certification programs are offered:

Master of Arts in Education degree and qualification for recommendation for the Alabama Class A Professional Certificate in the following areas:

- Counseling
- Educational Administration
- K-6 Elementary Education
- P-12 Education
- Secondary Education
- Special Education: Collaborative Teacher

Master of Arts in Education degree for nontraditional students in secondary education

Master of Arts in English

Master of Business Administration degree (several concentrations available)

Master of Science in Criminal Justice degree

The Education Specialist degree in the field of Educational Administration

In addition to specific degree and certification programs, the schools also administer graduate studies through which qualified students may take special coursework for personal or professional development or for application to certification renewals and endorsements.

The College of Education also offers the Master of Arts degree in the following areas:

The Community Counseling and Health Promotion and Human Performance programs, which are individually tailored to the needs of the student, provide an opportunity for advanced study for those individuals whose careers or personal interests require additional knowledge or research skills.

The community counseling major is appropriate for persons who plan to counsel in nonelementary and nonsecondary sites.

Currently, the Health Promotion and Human Performance major provides extended opportunities for individuals interested in teaching in health-related activities.

All admissions to programs and courses of graduate study are processed through the Office of Admission. Complete information on admissions, programs, policies, and procedures are contained in the *Graduate Catalog*, copies of which are available on request. Inquiries should be directed to the Dean of the College of Arts and Sciences, the Dean of the College of Business, the Dean of the College of Education, or to the Office of Admission.

COURSES OF INSTRUCTION

ACCOUNTING (AC)

AC 260. (3) **Personal Income Taxes.** A brief study of federal and state income tax regulations that apply to individuals. The course deals with taxable income, personal exemptions, itemized and business deductions, and credits against tax liability. Emphasis is on tax return preparation. Not open to accounting majors. (Spring)

AC 291. (3) **Accounting Concepts I.** An introduction to the concepts, procedures, and ethical aspects of accounting and financial reporting as a basis for decision making. Financial accounting fundamentals including the accounting cycle, the elements of financial statements, and financial statement presentation are emphasized for service and merchandising organizations.

AC 292. (3) **Accounting Concepts II.** A continuation of AC 291 with emphasis on the analysis and interpretation of accounting information, including cash flows. Coverage of financial accounting for manufacturing organizations, as well as basic managerial accounting decision making concepts consisting of cost-volume-profit analysis and budgetary control. Prerequisite: AC 291.

AC 390. (3) **Accounting Information Systems.** Fundamentals of both manual and computerized accounting systems with emphasis on transaction processing, internal controls, information retrieval, and design considerations. Prerequisites: AC 292; CIS 125 or equivalent.

AC 391. (3) **Intermediate Accounting I.** Corporation accounting with emphasis on the accounting process, the preparation of financial statements and related schedules, and the accounting for fixed assets, inventories, and receivables. Prerequisite or co-requisite: AC 390.

AC 392. (3) **Intermediate Accounting II.** Intangible assets, liabilities, capital stock, retained earnings, analysis of statements, and statement of cash flows. Prerequisite: AC 391.

AC 395. (3) **Accounting for Nonbusiness Organizations.** Concepts and accounting standards for governmental and nonprofit organizations with emphasis on the design and operation of a fund accounting system. Prerequisite: AC 390.

AC 396. (3) **Managerial Accounting.** Study, interpretation, and analysis of accounting data as used in the decision making process of business organizations. Not open to accounting majors. Prerequisite: AC 292.

AC 404. (1) **Transition to Business World.** Open to senior majors, this weekly seminar will focus upon those issues faced by graduates as they enter and progress in their business careers. The topics will include career decisions, keys to personal success, ethical dilemmas, balancing work and family responsibilities, continued personal growth, and adapting to and being effective in a corporate environment. Also listed as CIS 404, MG 404, and MK 404 but creditable only in field for which registered.

AC 471. (3) **Cost Accounting.** Techniques of cost accounting. Methods of accounting for materials, labor, and indirect costs in job order, processing, and activity based costing. Production and cash budgeting. Prerequisite: AC 390.

AC 472. (3) **Tax Accounting.** The study of federal income taxation of individuals and business entities from both a tax compliance and a tax planning perspective. Prerequisite: AC 391 or 396.

AC 473. (3) **Auditing.** Conceptual foundations of auditing practice. Basic auditing concepts including professional ethics, legal liability, independence, and competence. Emphasis is upon independent auditors and their techniques and standards. Prerequisites: AC 390, 392, 471.

AC 480. (3) **Accounting Internship.** A work related experience in a private, public, or governmental organization enhancing the applications of accounting theories and concepts. Must be a junior or senior. Prerequisites: AC 392 and approval of the department chair.

AC 488. (3) **Special Topics.** Study of a topic of current interest in the field of accounting. Topics will vary, but will be listed in the Schedule of Classes when offered and on students' transcripts. Prerequisite: departmental approval.

AC 490. (3) **Seminar in Small Business Operations.** Application of classroom learning to problems of small business in the community. Student is given the opportunity to apply business concepts and develop analytical skills. Upon completion of selected readings relevant to small or minority enterprises, students are assigned a project on the basis of interest, ability, and experience. Students work in teams under the supervision of a participating professor within the College of Business. Also listed as CIS 490, MG 490, and MK 490 but creditable only in field for which registered. Prerequisite: approval of the Dean of the College of Business.

AC 493. (3) **Advanced Accounting.** Advanced study of partnerships, installment sales, consignment sales, agency and branch accounting, and fiduciaries. Prerequisite: AC 391.

AC 495. (3) **Advanced Cost Accounting.** Managerial applications of cost data. Decision-making relative to cost behavior, cost-volume-profit analysis, distribution costs, standard costs, capital expenditures, and operations research. Prerequisite: AC 471.

AC 496. (3) **Information Systems Auditing.** This course will cover a variety of facets related to Information Systems (IS) auditing—from simple to complex computer systems. The course will present tools, concepts, and techniques necessary to properly audit IS. Also listed as CIS 496 but creditable only in field for which registered. Prerequisite: AC 390. Recommended: CIS 330, 445.

AC 497. (3) **Fraud Examination.** This course will cover the basic concepts of forensic accounting. Course content includes examining documents, using sources of information, testifying in court as an expert, writing reports, identifying high-risk signs, and how to prevent fraud. In general, help to prepare students for some of the material covered in the Certified Fraud Examiner (CFE) certification exam. Prerequisite: AC 496.

AC 498. (3) **Forensic Accounting Practicum.** A work-related experience in a private, public, or government organization enhancing the applications of forensic accounting theories and concepts. This course is a capstone course and must be taken as a senior. Prerequisites: AC 496, 497. Recommended: BL 497.

AC 499. (3) **Independent Study-Practicum.** Open to senior majors on approval of the department chair. Provides for study, research, or special field experience on departmental determination, supervision, and evaluation.

ART (AR)

AR 170. (3) **Art Appreciation.** (For nonmajors) A broad study of the contemporary visual arts by means of illustrated lectures, gallery visits, and studio demonstrations. Credit may not be applied toward requirements for an art major or minor. (Fall, Spring)

AR 180. (3) **Introduction to Art History.** An illustrated lecture course on the principal style developments and major artists in the visual arts. (Fall, Spring)

AR 200. (3) **Photography I.** The camera, developing films, making prints and enlargements. Techniques of photography. Special fee: \$30.00. (Fall, Spring)

AR 221. (3) **Drawing I.** Representational drawing. The study of line, light, shade, texture, and form in dry media. Three 2-hour studio periods per week. (Fall, Spring)

AR 222. (3) **Drawing II.** Interpretive drawing. Expression gained through media and form exploitation. Three 2-hour studio periods per week. Prerequisites: AR 221, 231. (Spring)

AR 231. (3) **Design I.** Design theory applied to two-dimensional composition. Two 3-hour studio periods per week. (Fall, Spring)

AR 232. (3) **Design II.** Design theory applied to three-dimensional composition. Three 2-hour studio periods per week. Prerequisites: AR 221, 231. (Spring)

AR 235. (3) **Lettering I.** Study and practice of basic techniques necessary for proficiency in the use of various alphabets. Principal tool will be the pen. Three 2-hour studio periods per week. (Fall)

AR 281. (3) **Art History Survey I.** A study of major monuments in western art from the paleolithic through the medieval periods. (Fall)

AR 282. (3) **Art History Survey II.** A study of major monuments and movements in western art from the beginning of the fifteenth century to the present day. (Spring)

AR 300. (3) **Photography II.** Press photography, advertising photography, and other types of commercial work. Two class periods and laboratory periods per week. Prerequisites: AR 200, 221, 231. Special fee: \$30.00. (Fall, Spring)

AR 302. (3) **Studio Photography.** In this course students will examine the creative control that comes with working in the photographic studio. Students will construct/arrange their images and learn to manipulate light and shadow to evoke different emotive qualities in their work. Prerequisites: AR 200, 221, 231. Special fee: \$30.00. (Fall)

AR 311. (3) **Printmaking I.** Basic techniques of relief, intaglio, and serigraphy. Two 3-hour studio periods per week. Special fee: \$30.00. (Fall)

AR 312. (3) **Printmaking II.** Continuation of Printmaking I. Two 3-hour studio periods per week. Prerequisites: AR 221, 231, 311. Special fee: \$30.00. (Fall)

AR 323. (3) **Advanced Design.** A concentrated study of design theory and application with emphasis on professional competency. Three 2-hour studio periods per week. Prerequisites: AR 221, 231. (Offered on sufficient demand)

AR 335. (3) **Selected Studies in Studio Art.** Concentrated study in narrow areas of studio art designed to provide access to specialized techniques and materials. Prerequisites: AR 221, 231. A \$30.00 lab fee may be required according to topic. (Offered on sufficient demand)

AR 340. (3) **Watercolor I.** Study of basic techniques of watercolor painting and basic composition. Three 2-hour studio periods per week. (Spring)

AR 341. (3) **Watercolor II.** Continuation of Watercolor I; advanced techniques, composition, and design. Three 2-hour studio periods per week. Prerequisites: AR 221, 231. (Spring)

AR 342. (3) **Painting I.** Study of an experimentation with basic techniques of painting media, preparation of grounds, and other general mechanics of beginning painting. Problems in basic pictorial design. Two 3-hour studio periods per week. (Fall, Spring)

AR 343. (3) **Painting II.** Continuation of Painting I with greater attention to pictorial design and production of quality work. Two 3-hour studio periods per week. Prerequisites: AR 221, 231, 342. (Fall, Spring)

AR 346. (3) **Illustration.** Media and techniques related to commercial illustration. Two 3-hour studio periods per week. Prerequisites: AR 221, 231. (Spring)

AR 347. (3) **Computer Graphics in Art I.** Computer technology, procedures, and vocabulary applied to art with an emphasis on original design and composition. Two 3-hour studio periods per week. Prerequisites: AR 221, 231. (Fall, Spring, Summer)

AR 351. (3) **Ceramics I.** Hand building and wheel throwing, glazing and firing. Two 3-hour studio periods per week. Special fee: \$30.00. (Fall, Spring, Summer)

AR 352. (3) **Ceramics II.** Continuation of Ceramics I. Two 3-hour studio periods per week. Prerequisites: AR 221, 231, 351. Special fee \$30.00. (Fall, Spring, Summer)

AR 391. (3) **Sculpture I.** Study of three-dimensional techniques using temporary and permanent materials suitable for sculpture form. Two 3-hour studio periods per week. Special fee: \$30.00. (Fall)

AR 392. (3) **Sculpture II.** Continuation of Sculpture I. Student will work toward developing sculptural form in mixed media. Two 3-hour studio periods per week. Prerequisites: AR 221, 231, 391. Special fee: \$30.00. (Fall)

AR 401. (3) **Advanced Photography.** Development of technical skills to combine the medium of photography with conceptual exploration of artistic ideas. This class will culminate in a cohesive final portfolio. May be repeated for three or six hours credit per semester. Prerequisites: AR 221, 231, 300. Special fee: \$30.00. (Spring)

AR 404. (3) **Photo Journalism.** Instruction in such phases of photo journalism as sports, general news, and feature photography. Techniques

of posing, lighting, and stop action. Includes ethics of photography. Two class periods; one 2-hour laboratory period per week. Prerequisites: AR 221, 231, 300. Special fee: \$30.00. (Fall)

AR 405. (3) **Alternative Processes in Photography.** Experimentation with alternative techniques in photography such as hand-coloring, print toning, liquid emulsion, transfer processes, book arts and mixed media. Prerequisites: AR 200, 221, 231. Special fee: \$30.00. (Fall)

AR 406. (3) **Digital Imaging.** Training in enhanced image building with Macintosh that emphasizes Adobe Photoshop. Students will focus on using digital cameras, electronic editing, and non-silver photographic processes. Prerequisites: AR 221, 231, 347. (Spring, even-numbered years)

AR 411. (3) **Advanced Printmaking.** Concentration on one of two graphic processes and individualized techniques; history of printmaking through assigned reading. Two 3-hour studio periods per week. May be repeated for three or six hours credit per semester. Prerequisites: AR 221, 231, 312. Special fee: \$30.00. (Fall)

AR 421. (3) **Advanced Drawing.** Student will be expected to work competently and expressively. Student will be required to be familiar with current and traditional graphic styles. Three 2-hour studio periods per week. May be repeated for three or six hours credit per semester. Prerequisites: AR 221, 222, 231. (Spring)

AR 442. (3) **Advanced Painting.** Students will be expected to develop a mature and painterly expression. Two 3-hour studio periods per week. May be repeated for three or six hours credit per semester. Prerequisites: AR 221, 231, 343. (Fall)

AR 445. (3) **Layout and Typography.** Problems in layout and typography for applied art. Three 2-hour studio periods per week. Prerequisites: AR 221, 231. (Spring, even-numbered years)

AR 446. (3) **Semiotics in Art.** Theory and application of signs and symbols in the development and functioning of visual imagery. Two 3-hour studio periods per week. Prerequisites: AR 180, 221, 231, or permission of instructor. (Spring)

AR 447. (3) **Computer Graphics in Art II.** Continuation of computer technology, procedures, and vocabulary applied to art. Two 3-hour studio periods per week. May be repeated for three hours credit per semester. Prerequisites: AR 221, 231, 347. (Fall, Spring, Summer)

AR 448. (3) **Packaging and Display.** The theory and practical application of graphic design to three-dimensional forms. Three 2-hour studio periods per week. Prerequisites: AR 221, 231, six hours credit of AR 446 or permission of the instructor. (Spring)

AR 451. (3) **Advanced Ceramics.** Emphasis on perfecting throwing and hand building techniques. Glaze formulation and experimental firing. Two 3-hour studio periods per week. May be repeated for three or six hours credit per semester. Prerequisites: AR 221, 231, 352. Special fee: \$30.00. (Fall, Spring, Summer)

AR 480W. (3) **Modern Art.** An investigation and critical analysis of diverse modes, issues, and problems of twentieth century painting and sculpture. (Fall, odd-numbered years)

AR 481W. (3) **Modern Architecture.** Major monuments and master architects of the twentieth century emphasizing concepts of modernism and post-modernism. (Offered on sufficient demand)

AR 482W. (3) **Italian Renaissance Art.** The historical development of Italian painting and sculpture from the late thirteenth to the mid-sixteenth centuries. (Fall, even-numbered years)

AR 483W. (3) **American Art.** An exploration of the motivations and the aesthetics involved in the evolution of art in America with an emphasis on student analysis of works of art and of independent research. (Fall, odd-numbered years)

AR 484. (3) **History of Photography.** A survey of the history of photography, with emphasis on its evolution from and relationship to painting, and an analysis of the work of significant photographers. (Spring, even-numbered years)

AR 485W. (3) **Theory and Criticism.** Creative expression, criteria for art theory and criticism are developed through historical and contemporary art perspectives. Visiting lecturers and field trips to select exhibitions. (Spring, odd-numbered years)

AR 486W. (3) **Women, Art, and Society.** This course surveys a selective number of prominent women artists throughout history and offers an understanding of women as art makers and issues relevant to their art. Students will develop critical abilities and gain insight relative to their own work experience and specific theoretical concerns. Also listed as WS 486W but creditable only in the field for which registered. (Offered on sufficient demand)

AR 491. (3) **Advanced Sculpture.** The student will work in a sustained program involving one or two mediums. Two 3-hour periods per week. May be repeated for three or six hours credit per semester. Prerequisites: AR 221, 231, 392. Special fee: \$30.00. (Fall)

AR 493. (3) **Senior Exhibition.** A representative exhibition of the student's work to be undertaken in the senior year. Prerequisite: senior classification. (Fall, Spring, Summer)

AR 495, 496. (3,3) **Photography Practicum.** Selected problems and practice emphasizing actual professional work situations in photography through special study, projects, or field experience under departmental supervision and evaluation. Approval of the department chair required. (Fall, Spring)

AR 499. (3) **Independent Study-Practicum.** Open to senior art majors, upon approval of the chair of the department. Provides for independent study, projects, or experiences under departmental determination, supervision, and evaluation. (Fall, Spring, Summer)

BIOLOGY (BI)

BI 100. (1) **Pre-Health Professions Orientation.** An introduction to the health professions for freshman and transfer students planning to seek admission to health professions schools such as medicine, dentistry, optometry, podiatry, pharmacy, and physical therapy. Not applicable for credit toward a major or minor in biology; may be used as a general elective. (Fall)

BI 101. (4) **Introductory Biology.** Cell biology, genetics, evolution, diversity, and ecology, with emphasis on examples that relate to humans. This course may not be used to satisfy the requirements for a major or minor in biology. Three class periods; one 2-hour laboratory period per week. Special fee: \$30.00. (Fall, Spring, Summer)

BI 102. (4) **Introductory Biology.** Biology of plants and animals, including humans, via a comparative study of body systems. This course may not be used to satisfy the requirements for a major or minor in biology. Three class periods; one 2-hour laboratory period per week. Prerequisite: BI 101. Special fee: \$30.00. (Fall, Spring, Summer)

BI 111. (4) **Principles of Biology.** The chemical basis of life, cell structure and function, metabolism, and genetics. Designed for biology and other science majors or minors. Three class periods; one 2-hour laboratory period per week. Special fee: \$30.00. (Fall, Spring)

BI 112. (4) **Principles of Biology.** Evolution, diversity, and ecology of organisms. Designed for biology and other science majors or minors. Three class periods; one 2-hour laboratory period per week. Prerequisite: BI 111. Special fee: \$30.00. (Fall, Spring)

BI 141. (4) **Human Anatomy and Physiology I.** Structure and physiology of the human body, with emphasis on the integumentary, skeletal, muscular, endocrine, and nervous systems. Designed especially for students in nursing or allied health programs. Three class periods; one 2-hour laboratory period per week. Special fee: \$30.00. (Fall, Spring, Summer)

BI 142. (4) **Human Anatomy and Physiology II.** A continuation of Biology 141, with emphasis on the digestive, circulatory, excretory, respiratory, and reproductive systems. Designed especially for students in nursing or allied health programs. Three class periods; one 2-hour laboratory period per week. Prerequisite: BI 141. Special fee: \$30.00. (Fall, Spring, Summer)

BI 300W. (1) **Biological Literature.** Training in locating and utilizing biological information in the technical literature and in writing a scientific paper. One class period per week plus additional library assignments. Prerequisite: BI 112. (Fall, Spring, Summer)

BI 305. (4) **Cell Biology.** Molecular biology of eukaryotic cells, with emphasis on origins, ultrastructure, energetics, growth and division, and mechanisms of heredity. Three class periods; one 3-hour laboratory period per week. Prerequisites: BI 112; CH 111. Special fee: \$30.00. (Fall, Spring)

BI 306. (4) **Genetics.** The basic principles of heredity and their significance in the development and function of organisms. Three class periods; one 3-hour laboratory period per week, plus additional assignments. Prerequisites: BI 112; CH 111. Special fee: \$30.00. (Fall, Spring; Summer, odd-numbered years)

BI 307. (4) **Microbiology.** Fundamentals of microbiology including a study of the history of microbiology, cell structure and chemical composition, physiology and growth, clinical significance, taxonomy, genetics, and ecology of microorganisms and their effects on humans and their environment. Emphasis will be placed on the bacteria, but viruses, fungi, pro-

tistans, and protozoans will also be discussed. Three class periods; one 2-hour laboratory period per week. Prerequisites: BI 111 or 141; CH 101 or 111. Special fee: \$30.00. (Fall, Spring, Summer)

BI 310. (4) **Comparative Vertebrate Morphology.** Anatomy of selected vertebrates with emphasis on the functional aspects of homologous structures. Two class periods; two 2-hour laboratory periods per week. Prerequisite: BI 112. Special fee: \$30.00. (Fall)

BI 311. (4) **Animal Physiology.** The basic physiological processes of animals. Three class periods; one 3-hour laboratory period per week. Prerequisites: BI 112; CH 112, 112L; BI 310 is recommended. Special fee: \$30.00. (Spring)

BI 312. (3) **Evolution.** Principles of evolution, including natural selection, speciation, adaptation, and phylogeny. Three class periods per week. Prerequisite: BI 306. (Fall)

BI 340. (4) **Invertebrate Zoology.** The morphology, phylogeny, ecology, and adaptive diversity of invertebrates. Two class periods; two 2-hour laboratory periods per week. Prerequisite: BI 112. Special fee: \$30.00. (Fall)

BI 341. (4) **Natural History of the Vertebrates.** A survey of chordates, with emphasis on their phylogeny, classification, general characteristics, life histories, behavior, and distribution. Laboratory will include field work, collection, and identification of local vertebrates. Three class periods; one 3-hour laboratory period per week. Prerequisite: BI 112. Special fee: \$30.00. (Spring)

BI 362. (4) **Non-Vascular Plants.** A survey of algae, fungi, and bryophytes, with emphasis on reproduction, morphology, taxonomy, and evolution. Three class periods; one 3-hour laboratory period per week. Prerequisite: BI 112. Special fee: \$30.00. (Spring)

BI 363. (4) **Vascular Plants.** A survey of ferns, fern allies, gymnosperms, and flowering plants, with emphasis on reproduction, morphology, taxonomy, and evolution. Three class periods; one 2-hour laboratory period per week. Prerequisite: BI 112. Special fee: \$30.00. (Fall)

BI 380. (3) **Teaching Science in the Secondary Schools.** Examines the problems of teachers in secondary science in integrating laboratory activities into the science curriculum. Provides experiences in planning, preparation, teaching and evaluation of laboratory activities. Considers the use of technology, safety, hazardous waste, teaching resources, student textbooks, and the Alabama Course of Study. Two class periods; one 2-hour laboratory period per week. Field trip and/or term project may be required. This course cannot be used as a 300-level elective in any major or minor other than secondary education. Also listed as CH 380, ES 380, and PH 380 but creditable only in the field for which registered. Special fee: \$30.00. (Fall, even-numbered years)

BI 407. (4) **Applied Bacteriology.** Principles and procedures used in the study of the microbiology of diseases, water, foods, air, soil, sewage, and industrial processes. The bacteria will be emphasized. Three class periods; one 2-hour laboratory period per week. Prerequisite: BI 307. Special fee: \$30.00. (Spring, odd-numbered years)

BI 409. (3) **Immunology.** The immune response, including the chemical nature of antigens and antibodies, the humoral and cellular response to antigens, and the cells of the immune system and their relationship to each other. Two class periods; one 2-hour laboratory period per week. Prerequisite: BI 307. Special fee: \$30.00. (Spring, even-numbered years)

BI 421. (4) **Ecology.** Relationships between organisms and their environment, including the structure and function of populations, communities, and ecosystems. Three class periods; one 3-hour laboratory period per week. Extended laboratory periods, overnight, or weekend field trips may be required. Prerequisite: BI 112, and junior or senior standing recommended. Special fee: \$30.00. (Fall, Spring)

BI 423. (4) **Aquatic Ecology.** Freshwater habitats and their biotas. Qualitative and quantitative techniques for studying lakes, streams, and wetlands will be included. Three class periods; one 3-hour laboratory period per week. Extended laboratory periods, overnight, or weekend field trips may be required. Prerequisites: BI 112; CH 112, and junior or senior standing. Special fee: \$30.00. (Fall)

BI 433. (4) **Embryology.** Principles of the development of animals including the molecular and cellular basis for differentiation, with selected vertebrates used to illustrate the development of tissues, organs, organ systems, and body form. Two class periods; two 2-hour laboratory periods per week. Prerequisite: BI 112, and junior or senior standing. Special fee: \$30.00. (Summer, odd-numbered years)

BI 441. (3) **Biochemistry.** Chemical interpretations of biological phenomena; compounds of biological significance as related to metabolism; carbohydrates, lipids, proteins, nucleic acids, and enzymes. Also listed as CH 441 but creditable only in field for which registered. Prerequisites: CH 312, 312L. (Fall, odd-numbered years)

BI 451. (3) **Ornithology.** Biology and classification of birds with emphasis on field identification of local species. Two class periods; one 3-hour laboratory period per week. Prerequisite: BI 112. Special fee: \$30.00. (Summer, even-numbered years)

BI 452. (3) **Entomology.** Morphology, physiology, and taxonomy of insects, including collection, preservation, and identification of those occurring in the local area. Two class periods; one 3-hour laboratory period per week. Prerequisite: BI 112. Special fee: \$30.00. (Summer, odd-numbered years)

BI 460. (3) **Plant Physiology.** Physiological processes in plants and their relationship to structure and environment with emphasis on vascular plants. Two class periods; one 2-hour laboratory period per week. Prerequisite: BI 112. Special fee: \$30.00. (Spring, even-numbered years)

BI 463. (3) **Plant Taxonomy.** Plant morphology and taxonomic methods for the identification, classification, nomenclature, and phylogeny of higher vascular plants and their distribution and ecology, utilizing all elements of local flora. Two class periods; one 3-hour laboratory period per week. Prerequisite: BI 112. Special fee: \$30.00. (Spring)

BI 471. (4) **Parasitology.** Morphology, taxonomy, life history, and ecology of parasites of humans and other animals. Three class periods; one

2-hour laboratory period per week. Prerequisite: BI 112, and junior or senior standing recommended. Special fee: \$30.00. (Fall, even-numbered years)

BI 472. (4) **Histology.** Animal tissues and a survey of the microscopic structure of the various organs of higher vertebrates. Two class periods; two 2-hour laboratory periods per week. Prerequisite: BI 305. Special fee: \$30.00. (Offered on sufficient demand)

BI 480. (1) **Pre-Health Professions Internship.** Designed to provide pre-health professions (pre-medicine, pre-dentistry, pre-optometry, pre-pharmacy, pre-physical therapy, pre-occupational, pre-podiatry, and pre-veterinary) students direct contact with the health professions and the variety of aspects of health care delivery through supervised observation and instruction at an approved area hospital and/or private practice. Open to junior and senior pre-health professions students with a GPA not less than 3.0 and with approval of the pre-health professions advisor. Not applicable for credit toward a major or minor in biology; may be used as a general elective. Also listed as CH 480 but creditable only in field for which registered. (Fall, Spring)

BI 495. (1-4)**Research/Internship.** Independent research or internship on individual projects under faculty supervision for selected biology majors. Scheduled work and conferences require a minimum average of four hours per week per credit hour. Research or internship may be off campus at a preapproved site with credit depending on scope of project. May be repeated for a maximum of four credit hours. Prerequisite: departmental approval. Special fee: \$30.00 for on-campus projects. (Fall, Spring, Summer)

BI 499. (1-4)**Special Topics in Biology.** A detailed study of a particular topic of special interest. Topics will vary but will be listed in the schedule of classes when offered, and on the students' transcripts. Prerequisite: departmental approval. A \$30.00 laboratory fee may be required according to topic. (Offered on sufficient demand)

The following biology courses are offered at the Sea Laboratory of the Marine Environmental Sciences Consortium which is located on Dauphin Island. Special fees and frequency of offering for each course are determined by the consortium. Number of class periods and laboratories varies according to the course.

BI 205. (2) **Marine Technical Methods.** An introduction to the hardware of marine science, sampling procedures, processing, station location and field equipment maintenance and operation. Also listed as ES 205 but creditable only in the field for which registered. Prerequisite: basic science major.

BI 228. (4) **Ocean Science.** An introduction to the study of oceans, their physical and chemical parameters, the life within them, and their relationship to man. Also listed as ES 228 but creditable only in the field for which registered.

BI 308. (4) **Marine Biology.** A general survey of marine plants, invertebrates and vertebrates, the communities they form, and the physical and chemical factors which influence them. Prerequisite: BI 112.

BI 345. (2) **Dolphins and Whales.** Lectures, audiovisual presentations, and practical exercises to guide students to further study of the classification, anatomy, and ecology of the cetaceans. Prerequisite: BI 310 or 408.

BI 403. (4) **Marine Invertebrate Zoology.** A study of the natural history, systematics and morphology of marine invertebrates from a variety of habitats in the Gulf of Mexico, oriented toward a field and laboratory approach. Prerequisite: BI 112.

BI 408. (4) **Marine Vertebrate Zoology.** Biology of marine vertebrates emphasizing systematics, behavior, physiology, and ecology of local forms. Prerequisite: BI 112.

BI 411. (4) **Marsh Ecology.** A study of the floral and faunal elements of various marsh communities.

BI 412. (4) **Marine Ecology.** Lecture and laboratory studies of bioenergetics, community structure, population dynamics, predation, competition and speciation in marine ecosystems. Prerequisite: BI 112.

BI 413. (4) **Marine Behavioral Ecology.** Principles of animal behavior as applied to marine organisms. Prerequisite: BI 112; MA 345 recommended.

BI 415. (4) **Coastal Ornithology.** Study of coastal and pelagic birds with emphasis on ecology, taxonomy and distribution.

BI 425. (4) **Introduction to Oceanography.** A general introduction to the physics, chemistry, geology and biology of the ocean. Also listed as ES 425 but creditable only in the field for which registered. Prerequisite: general biology, marine biology, or graduate standing.

BI 429. (4) **Marine Botany.** A general survey of marine algae (microscopic and macroscopic), as well as salt marsh vegetation mangroves, seagrasses and maritime forest communities. Prerequisite: BI 112.

BI 430. (1-3) **Research on Special Topics.**

BI 440. (1-4) **Special Topics in Marine Science.**

BUSINESS LAW (BL)

BL 240. (3) **The Legal Environment of Business.** A broad study of public and private law areas as they govern present-day business. The public law study includes the system of jurisprudence, sources of law, constitutional law, international transactions, consumer and employee protection, and a wide range of governmental regulation of business. The study of private law includes contracts, business organizations and agency, torts, and product liability.

BL 380. (3) **Law of Commercial Transactions and Property.** A study of commercial transactions under the UCC, including sales, commercial paper, secured transactions, and bank-customer relations. The course also covers fundamental principles of the law of real and personal property, insurance, and estates and trusts. Prerequisite: BL 240.

BL 381. (3) **Business Law for Entrepreneurs.** This course covers essentials that every entrepreneur should know regarding partnerships, corporations and limited liability companies. Surveys the latest laws that affect small business owners as employers and as traders in international

transactions. Also includes an emphasis on intellectual property and law in cyberspace, especially as it impacts entrepreneurial ventures. Prerequisite: BL 240.

BL 455. (3) **International Law of Commerce.** Prevailing principles of the laws of contracts, sales agency, corporate and noncorporate forms of business organizations, merchants and nonmerchants, and other legal aspects of business under foreign legal systems; knowledge of American and foreign concepts to enable recognition of the need and importance of legal assistance in international business transactions. Prerequisite: BL 380. (Offered on sufficient demand)

BL 456. (3) **Estate Law and Planning.** Planning the use of life insurance, lifetime gifts, life estates, trusts, and different types of bequests in relation to income, gift, and estate taxes; study of the legal, tax, and human factor surrounding efficient transferral of property. Prerequisite: approval of instructor. (Offered on sufficient demand)

BL 480. (3) **Law for Professional Accountants.** A comprehensive review of law subjects the accountant encounters, including commercial transactions under the UCC, real and personal property, contracts, government regulation, estates and trusts, and business organizations. Special emphasis is placed on the law topics in the CPA examination. Prerequisite: BL 380. (Offered on sufficient demand)

BL 497. (3) **Forensic Accounting Law.** This course will cover the principles of law related to forensic accounting. It will cover criminology theories, forensic evidence, and how to be an expert witness in court. The course content will cover some material on the Certified Fraud Examiner (CFE) certification exam.

CAP (CAAP ADMINISTRATION)

CAP 299. (0) **CAAP Administration.** Preparation for and administration of the Collegiate Assessment of Academic Proficiency (CAAP) Examination. A non-credit course required of all students to be taken during the junior year. Consists of 2 one-hour test review sessions and successful completion of the examination. This is a pass/fail course with a numerical score recorded on student transcripts. Prerequisites: must enroll after completing 44 hours of coursework but prior to the beginning of the 70th hour of coursework AND must have completed all of the following: English 111, English 112, at least one semester of the literature requirement, Mathematics 110 or Mathematics 112 or higher level mathematics course as appropriate, at least one semester of the laboratory science requirement, and at least one semester of the history requirement. (Fall, Spring, Summer)

CHEMISTRY (CH)

Lecture courses annotated with an asterisk () and their corresponding laboratory courses (L) must be taken concurrently unless either the lecture course or the corresponding laboratory course was passed previously. If a student passes only one course of the combination and elects not to repeat the course that was failed, elective credit—not major, minor, or general studies credit—shall be given for the course passed.*

*CH 101. (3) **Introductory Chemistry.** A course in the fundamental principles of chemistry designed for students who have not had high school chemistry or students whose curriculum requires only one year of chemistry. Acceptable for credit toward general studies and certain majors including fashion merchandising and nursing. Not applicable for credit toward a chemistry major or minor. No prerequisite. (Fall, Spring, Summer)

CH 101L. (1) **Introductory Chemistry Laboratory.** Laboratory for Chemistry 101 consisting of basic laboratory operations and techniques used in measuring physical and chemical properties. One 3-hour laboratory period per week. Special fee: \$30.00. (Fall, Spring, Summer)

*CH 102. (3) **Introductory Chemistry.** Continuation of Chemistry 101. Includes an introduction to organic chemistry and biochemistry. Acceptable for credit toward general studies or a major in nursing. Not applicable for credit toward a chemistry major or minor. Prerequisite: CH 101 or 111. (Spring, Summer)

CH 102L. (1) **Introductory Chemistry Laboratory.** Laboratory for Chemistry 102 provides further experience for developing laboratory skills and illustrating concepts presented in CH 102 lecture. One 3-hour laboratory period per week. Special fee: \$30.00. (Spring, Summer)

*CH 111. (3) **General Chemistry.** The fundamental principles and laws governing inorganic substances. Introductory materials, subatomic and atomic theory and structure, chemical bonding, molecular structure, chemical equations and calculations, thermochemistry, kinetic theory of matter and gas laws, and the periodic table. Prerequisites: one unit of high school chemistry or CH 101; three units of high school mathematics through Algebra II, or MA 100 as a corequisite. (Fall, Spring)

CH 111L. (1) **General Chemistry Laboratory.** Laboratory for Chemistry 111 consisting of the determination of densities, chemical formulas, combining ratios, molar masses, molecular structure, group reactivities, ion identities, and specific heats and heats of solution. One 3-hour laboratory period per week. Special fee: \$30.00. (Fall, Spring)

*CH 112. (3) **General Chemistry.** Continuation of Chemistry 111. A study of chemical reactions in solution including solutions, spontaneity of reactions, free energy change, entropy change, equilibrium systems, rates of reaction, precipitation reactions, acids and bases, oxidation and reduction, and coordination compounds. The laboratory work consists of classical qualitative and quantitative procedures. A student must have a grade of C or better in CH 111 and 112 before enrolling in more advanced chemistry courses. Prerequisites: CH 111, 111L, or advanced placement. (Fall, Spring, Summer)

CH 112L. (1) **General Chemistry Laboratory.** Laboratory for Chemistry 112 consisting of the qualitative and quantitative analysis of selected chemicals; the determination of rates of reaction and equilibrium constants; and the measurement of pH and acid-base titrations. One 3-hour laboratory period per week. Special fee: \$30.00. (Fall, Spring, Summer)

*CH 311. (4) **Organic Chemistry.** Basic principles of organic chemistry with reference to an integrated study of aliphatic and aromatic com-

pounds, nomenclature, classification, reactions, mechanisms, and spectroscopy. Prerequisites: Grades of C or better in CH 111, 111L, 112 and 112L. (Fall, Spring)

CH 311L. (1) **Organic Chemistry Laboratory.** Laboratory for Chemistry 311. Illustrates organic chemistry laboratory techniques and preparations of selected organic compounds. One 3-hour laboratory period per week. Prerequisites: CH 112, 112L. Special fee: \$30.00. (Fall, Spring)

*CH 312. (4) **Organic Chemistry.** A continuation of Chemistry 311, with consideration given to heterocyclic compounds, photochemistry, polymers, and natural products. Prerequisites: CH 311, 311L. (Spring, Summer)

CH 312L. (1) **Organic Chemistry Laboratory.** Laboratory for Chemistry 312. A continuation of CH 311L. One 3-hour laboratory period per week. Prerequisite: CH 311L. Special fee: \$30.00. (Spring, Summer)

*CH 321. (2) **Quantitative Analysis.** Principles and techniques of gravimetric and volumetric chemical analysis. Prerequisite: grades of C or better in CH 111, 111L, 112 and 112L. (Fall)

CH 321LW. (2) **Quantitative Analysis Laboratory.** Laboratory for Chemistry 321 illustrating the principles and techniques of gravimetric and volumetric chemical analysis. Includes training in the preparation of technical reports. Two 3-hour laboratory periods per week. Prerequisites: CH 112, 112L. Special fee: \$30.00. (Fall)

*CH 322. (3) **Instrumental Analysis.** Principles of operation and application of instrumental methods of chemical analysis involving spectrophotometry, spectroscopy, electroanalytical methods, and chromatography. Not applicable for credit for students taking the professional chemistry major or who may otherwise have credit for CH 432. Prerequisites: CH 311 and CH 311L. (Spring)

CH 322L. (2) **Instrumental Analysis Laboratory.** Laboratory for Chemistry 322 consisting of experiments illustrating the calibration and operation of and use of data from instruments discussed in CH 322. Includes training in the preparation of technical reports. Two 3-hour laboratory periods per week. Prerequisites: CH 311 and CH 311L. Special fee: \$30.00. (Spring)

*CH 341. (3) **Applied Physical Chemistry.** A survey course of physical chemistry studying equilibrium thermodynamics and chemical kinetics with a focus on environmental health and life science applications. Prerequisites: grades of C or better in CH 111, 111L, 112, 112L; MA 122 or 125. (Fall)

CH 341L. (1) **Applied Physical Chemistry Laboratory.** Laboratory for Chemistry 341 presents diverse experimental methods for determining properties for chemical systems. Topics covered include data reduction techniques and precision analysis. One 3-hour laboratory period per week. Special fee: \$30.00. (Fall)

CH 371L. (1) **Laboratory Arts.** Construction and repair of glass apparatus. One 3-hour laboratory period per week. Prerequisite: two years of chemistry or consent of department. Special fee: \$30.00. (Offered on sufficient demand)

CH 380. (3) **Teaching Science in the Secondary Schools.** Examines the problems of teachers in secondary science in integrating laboratory activities into the science curriculum. Provides experiences in planning, preparation, teaching and evaluation of laboratory activities. Considers the use of technology, safety, hazardous waste, teaching resources, student textbooks, and the Alabama Course of Study. Two class periods; one 2-hour laboratory period per week. Field trip and/or term project may be required. This course cannot be used as a 300-level elective in any major or minor other than secondary education. Also listed as BI 380, ES 380, and PH 380 but creditable only in the field for which registered. Special fee: \$30.00. (Fall, even-numbered years)

*CH 381. (4) **Physical Chemistry.** Equations of state, equilibrium thermodynamics, and ideal and nonideal solutions. Prerequisites: Grades of C or better in CH 111, 111L, 112 and 112L; MA 126 or concurrently; PH 251. (Fall)

CH 381L. (1) **Physical Chemistry Laboratory.** Laboratory for Chemistry 381 consisting of experimental techniques for measuring properties of physicochemical systems. One 3-hour laboratory period per week. Special fee: \$30.00. (Fall)

*CH 382. (3) **Physical Chemistry.** A continuation of Chemistry 381 covering statistical thermodynamics, surface chemistry, electrochemistry, and physical and chemical kinetics. Prerequisites: CH 381, 381L. (Spring, odd-numbered years)

CH 382L. (2) **Physical Chemistry Laboratory.** Laboratory for Chemistry 382 consisting of experiments in spectroscopy, thermodynamics, electrochemistry, and chemical kinetics. Two 3-hour laboratory periods per week. Special fee: \$30.00. (Spring, odd-numbered years)

*CH 432. (3) **Chemical Instrumentation.** Principles of operation and application of instrumental methods of chemical analysis requiring calculus and physical chemistry in selected problems relating to spectrophotometry, spectroscopy, electroanalytical methods, and chromatography. Prerequisites: CH 381, 381L. (Spring)

CH 432LW. (2) **Chemical Instrumentation Laboratory.** Laboratory for Chemistry 432 consisting of the calibration, operation and use of data from instruments discussed in CH 432. Includes training in the preparation of technical reports. Two 3-hour laboratory periods per week. Prerequisites: CH 381, 381L. Special fee: \$30.00. (Spring)

*CH 434. (3) **Advanced Inorganic Chemistry.** An intensive study of selected topics of inorganic chemistry including atomic structure, acid base systems, selected groups of elements, group theory, and crystal field and ligand field theory as applied to coordination compounds. Prerequisites: CH 381, CH 381L, or concurrently or by permission of instructor. (Spring, even-numbered years)

CH 434L. (1) **Advanced Inorganic Chemistry Laboratory.** Laboratory for Chemistry 434 including modern methods of synthesizing, characterizing, and measuring kinetic and thermodynamics properties of inorganic and organometallic compounds. One 3-hour laboratory period per week. Prerequisites: CH 381, CH 381L, or concurrently or by permission of instructor. Special fee: \$30.00. (Spring, even-numbered years)

*CH 437. (3) **Advanced Organic Chemistry.** A study of the application of spectroscopic methods to the determination of organic structures. A review of selected organic mechanisms emphasizing classical reactive intermediates, stereochemistry, photochemistry, and orbital symmetry. Introduction to natural products chemistry. Prerequisites: CH 312, 312L, 381, 381L, or by permission of instructor. (Fall, even-numbered years)

CH 437L. (1) **Advanced Organic Chemistry Laboratory.** Laboratory for Chemistry 435 emphasizing the application of spectroscopic techniques such as FT-NMR (¹H and ¹³C) and FT-IR to the characterization of organic and organometallic compounds, and requiring completion of a complex multi-step synthesis. One 3-hour laboratory period per week. Prerequisites: CH 312, 312L, 381, 381L, or by permission of the instructor. Special fee: \$30.00. (Fall, even-numbered years)

CH 441. (3) **Biochemistry.** Chemical interpretations of biological phenomena; compounds of biological significance as related to metabolism; carbohydrates, lipids, proteins, nucleic acids, and enzymes. Also listed as BI 441 but creditable only in field for which registered. Prerequisites: CH 312, 312L. (Fall, odd-numbered years)

CH 444. (3) **Quantum Mechanics.** An introduction to quantum mechanics studying the postulates, the wave equation, operator techniques, atomic and molecular structure, and spectroscopy. Also listed as PH 444 but creditable only in field for which registered. Prerequisites: CH 381, 381L, or MA 126, PH 343. (Spring)

CH 456. (3) **Statistical Mechanics.** Elements of classical statistical mechanics and thermodynamics with an introduction to quantum statistical mechanics. Also listed as PH 456 but creditable only in field for which registered. Prerequisites: CH 381, 381L. (Fall, even-numbered years)

CH 460. (3) **Aquatic Chemistry.** The chemical composition of the oceans, major fresh water reservoirs, and rivers will be considered with emphasis on trace metals, organic compounds and suspended solids. The chemical contributors to overall water quality will be considered in the context of a model for both an urban and a rural watershed. Prerequisites: CH 305, 305L. (Spring)

CH 465. (3) **Environmental Regulations.** A study of the fundamental environmental laws and regulations of the United States. Primary emphasis will be on the Safe Drinking Water Act, the Clean Water Act, the Clean Air Act and the Resource Conservation and Recovery Act. Prerequisites: CH 311, 311L. (Spring)

CH 470. (3) **Atmospheric Chemistry.** The chemical composition of the atmosphere will be considered with emphasis on trace gases, aerosols and particulates. Primary photochemical processes will be examined along with the transport and fate of toxic gases and hydrocarbons. The production and decomposition of ozone in both the troposphere and the stratosphere will be studied. Global models for the accumulation of greenhouse gases will be considered. Prerequisites: CH 381, 381L. (Fall)

CH 471. (1) **Chemical Literature.** Training in the use of chemical literature as found in technical libraries. One class period per week plus additional library assignments. Prerequisites: CH 312, 312L, 322, 322LW. (Offered on sufficient demand)

CH 475L. (2) **Environmental Laboratory.** Principles and procedures for water, air and soil sampling in the environment. The application of basic analytical techniques such as gas chromatography (GC), high performance liquid chromatography (HPLC), and atomic absorption spectroscopy (AA) to environmental samples will be emphasized. A limited scope field study will be performed. Two 3-hour laboratory periods per week. Prerequisites: CH 432, 432LW. Special fee: \$30.00. (Fall)

CH 480. (1) **Pre-Health Professions Internship.** Designed to provide pre-health professions (pre-medicine, pre-dentistry, pre-optometry, pre-pharmacy, pre-physical therapy, pre-occupational therapy, pre-podiatry, and pre-veterinary) students direct contact with the health professions and the variety of aspects of health care delivery through supervised observation and instruction at an approved area hospital and/or private practice. Open to junior and senior pre-health professions students with a GPA not less than 3.0 and with approval of the pre-health professions advisor. Not applicable for credit toward a major or minor in biology; may be used as a general elective. Also listed as BI 480 but creditable only in field for which registered. (Fall, Spring)

CH 495. (1-3) **Senior Research/Internship.** Independent research or internship on individual projects under faculty supervision for selected chemistry majors who have completed at least 84 credit hours with a minimum 3.0 overall scholastic average. Scheduled work and conferences require a minimum average of four hours per week per credit hour. Research or internship may be off campus at a preapproved site with credit depending on scope of project. May be repeated for a maximum of three credit hours. Prerequisites: CH 382, 382L, or departmental approval. Special fee: \$30.00 for on-campus projects. (Fall, Spring, Summer)

COMPUTER INFORMATION SYSTEMS (CIS)

CIS 100. (3) **Introduction to Keyboarding/Word Processing.** Keyboarding at the computer. Word processing and the ten key numeric keypad are introduced with basic proficiency in keyboarding being accomplished. Documents, such as letters, memorandums, and reports are prepared.

CIS 125. (3) **Business Applications of Microcomputer Software.** A study of the application of microcomputer software to the business environment. Included are word processing, data management, and spreadsheet software programs. (Fall, Spring)

CIS 201. (3) **Programming in C++.** An introductory course using the C++ language, with emphasis on object-oriented programming concepts. This course focuses on the development of business-oriented programs. Prerequisite: CIS 125. (Fall, Spring)

CIS 207. (3) **COBOL.** A study of commercial computer programming systems using COBOL (COmmon Business Oriented Language) in the solution of problems occurring in the business environment. (Fall, Spring)

CIS 225. (3) **Visual BASIC.** A course in the fundamentals of the Visual BASIC language on microcomputers. This course covers the foundational logic of programming, processing arrays, and sequential files as

well as object-oriented programming concepts. Prerequisite: CIS 125. (Fall, Spring)

CIS 240. (3) **Word Processing Applications.** Further development of concepts of word processing. Implications of word processing on procedures and personnel in performing the basic information processing functions of origination, production, reproduction, distribution, and storage are addressed. Microcomputers are used to prepare documents with advanced word processing features. Prerequisite: CIS 125.

CIS 315. (3) **Advanced Object Oriented Programming.** An advanced programming course using the microcomputer. May include advanced elements from C++, Visual BASIC, JAVA and other object-oriented languages. Prerequisites: CIS 125, 201. CIS 225 is also recommended. (Spring)

CIS 320. (3) **COBOL Application.** A continuation of Computer Information Systems 207, with emphasis on advanced applications. Prerequisites: CIS 207 (Fall, Spring)

CIS 330. (3) **Introduction to Systems Analysis and Design.** A study of the Systems Development Life Cycle, with emphasis on the application of the concepts, methodologies, and tools related to the analysis, design, and implementation of successful information systems. Prerequisite: CIS 125. Recommended: CIS 201 or 207 or 225.

CIS 350. (3) **Multimedia in Business Reports and Meetings.** A study of business reports, both written and oral. Proposals, feasibility studies, progress reports, and formal analytical reports with graphic presentations are included. Interpersonal and intercultural communication, along with business ethics and problem analysis, are integrated with communication process and theory. A review of business grammar and communication is included in the course. Distance meeting formats are included. Prerequisite: CIS 125.

CIS 365. (3) **Electronic Spreadsheet Applications.** Applications course concentrating on the use of spreadsheet software to analyze and summarize mathematical, statistical, and financial data of business organizations. Prerequisite: CIS 125.

CIS 375. (3) **Applications of the Internet and WWW.** A basic introduction to the functions available on the Internet including e-mail, FTP (File Transfer Protocol or downloading files from the Internet), TELNET, and Gopher. The emphasis is placed on the first two functions. Students also study the World Wide Web. The focus of this portion of the curriculum is on using a browser (Microsoft Internet Explorer and Netscape Navigator/Communicator) and developing a simple Web site of two web pages on personal data. Open to all majors. Prerequisite: CIS 125 or equivalent.

CIS 400. (3) **Application Programming.** A study of batch processing for business transactions. Five types of computer programs are emphasized: the edit program, the file update program, the register program, the action document program, and the summary program. The course covers the development, design, implementation, and documentation of business applications and files. Prerequisites: CIS 320, 330.

CIS 404. (1) **Transition to Business World.** Open to senior majors, this weekly seminar will focus upon those issues faced by graduates as they enter and progress in their business careers. The topics will include career decisions, keys to personal success, ethical dilemmas, balancing work and family responsibilities, continued personal growth, and adapting to and being effective in a corporate environment. Also listed as AC 404, MG 404, and MK 404 but creditable only in field for which registered.

CIS 410. (3) **Case Projects.** A course in which the student, individually or in a group, is involved in the design, implementation, documentation, and presentation of an information processing system. Prerequisites: CIS 201, 207, 320, 400.

CIS 420. (3) **Information Systems Seminar.** Current problems in information systems through the reading of periodicals, government publications, books, and Web pages which have had a profound effect on the rapidly changing technology. Prerequisite: 12 hours in CIS or approval of instructor.

CIS 425. (3) **Design and Evaluation of Training Software.** Analysis, synthesis, and evaluation of instructional software designed for and applied to various learning situations. Creating web-based tutorial software for business training purposes. Prerequisites: CIS 125, 350, 375, 495.

CIS 430. (3) **Special Topics.** Select topics varying according to the need and interest of students. Prerequisite: approval of instructor.

CIS 435. (3) **Database Records Management.** Applications course concentrating on electronic data management and record keeping using a computer. The course includes an introduction to Computer Generated Input (CGI) forms in web pages. Prerequisite: CIS 125.

CIS 445. (3) **Database Management Systems.** Theory and practice of database design and processing within a Management Information Systems (MIS) framework. This includes fundamental design concepts, technical aspects of databases, use of specific DBMS software, and using data to enhance decision-making for managers. Prerequisites: CIS 201 or 207 or 225. Recommended: CIS 330.

CIS 470. (3) **Managing Computer Technology.** Lab setup and management, software and hardware installation, routine PC maintenance, and basic network management. The course will also include the physical, mechanical, and electronic considerations for effective management of technology-based learning laboratories. Prerequisites: CIS 125, 375.

CIS 475. (3) **Teaching Career-Technical Business and Marketing Education.** Techniques involved in carrying out the functions of secondary business and marketing education programs. A study of the functions of the classroom teacher/coordinator to include the appraisal of selected experiences, methods, materials, and use of multimedia resources; business/marketing lesson plans based on state courses of study and national standards; and sponsoring youth organizations. Coordination procedures are studied for conducting job opportunity surveys; problems and procedures in organizing and operating a cooperative education program; and methods of relating class instruction to on-the-job training. The philo-

sophical foundations of career-technical education are covered, including local, state, and federal relationships in the administration of career-technical education. Research and analysis of business and marketing occupations and skill standards will be included. Prerequisites: CIS 125, 240.

CIS 480. (3) **CIS Internship.** A work related experience in the University or other public or private organization where the student will have hands-on experience in the day-to-day operation and management of computer systems. Must be a junior or senior. Prerequisites: CIS 125 or equivalent and CIS 201 or 207 or 225 or equivalent and approval of instructor.

CIS 485. (3) **Data Communications and Networking.** This course provides a study of the fundamentals of data communications and networking including terminology, components, and models. Includes an examination of the construction, operation, and management of communications networks. Prerequisite: CIS 330. (Spring)

CIS 490. (3) **Seminar in Small Business Operations.** Application of classroom learning to problems of small business in the community. Student is given the opportunity to apply business concepts and develop analytical skills. Upon completion of selected readings relevant to small or minority enterprises, students are assigned a project on the basis of interest, ability, and experience. Students work in teams under the supervision of a participating professor within the College of Business. Also listed as AC 490, MG 490, and MK 490 but creditable only in field for which registered. Prerequisite: approval of the Dean of the College of Business. (Fall, Spring)

CIS 492. (3) **Management Information Systems.** A capstone course covering common and emerging applications of information systems and focusing on management and executive decision making and strategic use of information systems. Emphasis on technological developments, globalization, and ethical issues. Prerequisite: CIS 330. Recommended: CIS 445, 485.

CIS 495. (3) **Desktop and Web Publishing for Business.** Development of desktop publishing concepts. Advanced applications of preparing promotional, periodical, informational, stationery, and specialty publications with a business emphasis. Advanced multimedia and web page design in business. Study of web site creation and management, using forms, frames, etc. and the integration of databases. Includes sound, photo editing, and animation utilizing microphones, digital cameras, digital video and scanning techniques as they relate to the business world. Prerequisites: CIS 125, 375.

CIS 496. (3) **Information Systems Auditing.** This course will cover a variety of facets related to Information Systems (IS) auditing—from simple to complex computer systems. The course will present tools, concepts, and techniques necessary to properly audit IS. Also listed as AC 496 but creditable only in field for which registered. Prerequisite: AC 390. Recommended: CIS 330, 445.

CIS 499. (3) **Independent Study-Practicum.** Open to senior majors on approval of the department chair. Provides for study, research, or special field experience on departmental determination, supervision, and evaluation.

CRIMINAL JUSTICE (CJ)

For criminal justice majors and minors, Criminal Justice 250 is prerequisite to all advanced criminal justice courses except Criminal Justice 390. For non-majors and minors, there are no prerequisites.

CJ 250. (3) **Introduction to Criminal Justice.** A survey of the elements of the criminal justice system including the nature and definition of criminal law, the functions of the police, courts and corrections as subsystems and their interrelationship within the total system. (Fall, Spring, Summer)

CJ 306. (3) **Juvenile Justice.** An examination of the emergence of the juvenile justice system, the qualities which distinguish it from the criminal justice system, its unique goals, and the rationale underlying its evolution. (Spring)

CJ 315. (3) **Police Organization and Community Relations.** A study of the organization and functions of police agencies, with special reference to state and local agencies and community relations. (Spring)

CJ 326. (3) **Professional Ethics and Legal Liabilities.** An examination of standards and principles through which "professional misconduct" is recognized in an emerging system of ethics and law applicable to criminal justice practitioners. (Spring)

CJ 330. (3) **Domestic Violence.** An examination of intrafamily physical, sexual, and emotional abuse: its causes, its consequences, its extent and the manner in which social control agencies have responded to it. (Spring)

CJ 335. (3) **Corrections.** A survey of the historical, sociological, and philosophical development of corrections; analysis of institutional operation, programming, and management. (Summer, Fall)

CJ 336. (3) **Community-Based Corrections.** Organization of systems of aftercare treatment of juvenile and adult offenders released under probation and parole. (Spring, Summer)

CJ 360. (3) **Criminal Typologies.** An introduction to the typological approach to the study of crime and criminals and its usefulness in investigational, sentencing, and correctional practice. (Fall)

CJ 390. (3) **Substance Abuse.** A comprehensive study concerning the historical, social, and legal aspects of substance abuse. This course explores the impact of substance abuse on criminal behavior, criminal justice personnel, and the community. (Fall)

CJ 405. (3) **Criminal Investigation.** Investigation, methodology, relations of the detective with other police divisions, modus operandi, evidence development, source of information, interview, interrogation, surveillance, and courtroom testimony. (Fall)

CJ 406. (3) **Forensic Investigation.** An examination of modern forensic science principles and techniques as applied to the detection, collection, preservation and analysis of crime scene evidence. Course topics will include but are not limited to fingerprints, serological evidence, trace evidence, and other evidentiary items. (Spring, Summer)

CJ 415. (3) **Criminal Law.** A study of the historical and philosophical concepts of law, preserving life and property, offense against person and property, and common offense and defense to criminal acts. (Fall)

CJ 430. (3) **Criminal Evidence.** An examination of the basic principles of evidence including but not limited to testimonial and physical evidence used in the prosecution of criminal cases. (Fall)

CJ 434. (3) **Criminal Procedure.** Examines the procedural requirements for judicial processing of criminal offenders. Topics include the concepts of evidence sufficiency, standards of proof, due process, and constitutional safeguards. (Spring)

CJ 440. (3) **Methods and Statistics in Criminal Justice.** Examines the methodologies and statistical techniques employed by criminal justice researchers and professionals. (Fall)

CJ 450. (3) **Theory and Control of Crime.** An examination of the major theories of criminal behavior and their implications for crime control policies. (Fall)

CJ 480. (3) **Psychological Dimensions of Criminal Justice Practice.** Examines the psychological dimensions of criminal justice practice. Topics include the psychology of criminal conduct, the science of forensic profiling, the interviewing and interrogation of suspects, witnesses and victims, the interpersonal relationships among criminal justice professionals and members of the public, and other timely selected topics. (Spring)

CJ 495. (3) **Internship in Criminal Justice.** Supervised work experience with a criminal justice agency in which the student spends a minimum of 150 hours during the term under joint supervision of the agency and the University. There will be four meeting sessions during the internship period held on campus designed to evaluate and discuss the internship experience. Prerequisites: senior criminal justice majors and department chair approval. (Fall, Spring)

CJ 499. (3) **Independent Study-Practicum.** Open to senior majors on approval of the department chair. Provides for independent study, research, or practical experiences under departmental determination, supervision, and evaluation. (Fall, Spring, Summer)

COMMUNICATION (COM)

COM 120. (1) **Orientation to Communications and Theatre.** Description of basic academic terminology, professional opportunities, and requirements for the individual in the diverse areas of communications and theatre. Should be completed by all departmental majors as soon as possible after the major is declared. Also listed as TH 120 but creditable only in field for which registered. (Fall, Spring)

COM 200. (3) **Voice and Diction.** Practice in the development of a good speaking voice, with individual help in the correction of faulty speech habits. Also listed as TH 200 but creditable only in field for which registered. (Fall, Spring, Summer)

COM 201. (3) **Fundamentals of Speech.** Practical training in speech, with emphasis on social and professional needs. (Fall, Spring, Summer)

COM 210. (3) **Business and Professional Speech.** Preparation and performance of specific speech forms appropriate to business and professional forums, including conferences and interviews. (Spring)

COM 220. (3) **Basic Reporting.** Fundamentals of news gathering and news writing. Two class periods; one 2-hour laboratory per week. (Fall, Spring)

COM 230. (3) **Introduction to Public Relations.** The history, development, and professional practices of public relations in society, including the public relations process and standards. (Fall)

COM 240. (3) **Introduction to Radio-Television-Film Production.** The basic techniques of equipment operation and production of motion picture, visual, and sound messages in the appropriate format for cable, broadcasting, and film distribution. Students will learn the primary responsibilities of operations personnel in all three areas and select one format type in which to concentrate for the production of a final class project. Students completing COM 241 and COM 242 cannot apply this class to meet UNA graduation requirements. Special fee: \$30.00. (Fall, Spring)

COM 241. (3) **Introduction to Radio Production and Performance.** The basic techniques of operation, production, and performance of radio and audio media. Special fee: \$30.00. (Offered on sufficient demand)

COM 242. (3) **Introduction to Television Production and Performance.** The basic techniques of equipment operation, production, and performance of television and visual media. Special fee: \$30.00. (Offered on sufficient demand)

COM 250. (3) **Communication Writing.** Introduction to writing applicable to communications study and professionals, including scripts and advertising. Examination of representative samples. Prerequisites: EN 111, 112, or EN 120, 121. (Offered on sufficient demand)

COM 300. (3) **History of Film.** The historical development of the motion picture and television film as an art form from earliest stages to the present, including the technical, social, economic, and cultural factors influencing development, and using films from the periods and genres. Also listed as TH 300 but creditable only in field for which registered. (Fall, Spring)

COM 306. (3) **Interpersonal Communication.** Provides a functional interpretation of interpersonal communication in societal, educational, and vocational relationships. Appropriate readings and research regarding the influence of communication between two individuals is a primary focus of the course. (Fall, Summer)

COM 308. (3) **Nonverbal Communication.** This course studies the use of symbolic transmissions outside verbal contexts. Specific topics include the influences of gestures, dress, posture, and facial expressions on both senders and receivers. (Fall, even-numbered years)

COM 310. (3) **Foundations and Ethics.** Classical foundations of communication study, including study of representative Philosophers and Sophists. Examination of the ethical responsibilities of the communicator. (Spring)

COM 314. (3) **Mass Communication Theory.** Modern theories of mass communication messages and effects. (Fall)

COM 316. (3) **Fundamentals of Electronic Media.** A lecture course emphasizing the functions and responsibilities of electronic and film communication systems, including such areas as history, operations, regulation, economics, programming, and social responsibilities and effects. (Fall)

COM 317. (3) **Multimedia and Internet Authoring.** An introductory course in the process of creating and distributing Multimedia productions and Internet web pages. Prerequisite: COM 240 or departmental approval. (Offered on sufficient demand)

COM 320. (3) **Political Communication.** Current topics in political communication and political campaign, including appropriate research and readings. (Offered on sufficient demand)

COM 328. (3) **Program Research.** An introduction to the research methods and findings used to evaluate telecommunication programs, with emphasis on the application of the research in decisions on program use and placement; techniques of rating services, program and commercial testing, profiling, and economic measure for both immediate and delayed feedback. Prerequisites: COM 240, 316. (Spring)

COM 330. (3) **Group Communication.** Deals with communication theory and its applications to small groups within a variety of settings. Attention is given to the roles of the discussants and the emergence of group leaders as well as the influence communication variables have on each. (Fall, odd-numbered years)

COM 335. (3) **Television Appreciation: Programs and Perspectives.** Examination of the development of television programming content from 1948 to present. Students must have access to cable or satellite services for home viewing of classic television programs. (Offered on sufficient demand)

COM 340. (4) **Television Criticism.** Fundamentals of television criticism with emphasis on television content, visual literacy, programming genres, and social impact. Coursework will involve viewing and analysis of various types of television content including commercials, news, and some home programming. Three class periods; one 2-hour laboratory period. Prerequisite: COM 316. (Spring, even-numbered years)

COM 350. (3) **Argumentation and Debate.** An introduction to the theory and practice of argumentation and debate as they are employed by our society. This course includes a study of basic argumentative theory, burden of proof, and reasoning within both public address and debate contents. (Offered on sufficient demand)

COM 356. (3) **Advanced Reporting.** A continuation of COM 220 with emphasis on the development of reportorial skills necessary for advanced news gathering and news writing. May include field trip. Two class periods; one 2-hour laboratory per week. Prerequisite: COM 220. (Spring)

COM 360. (2) **Speech Criticism and Analysis.** Methods of critiquing formal speeches, description of forms and styles. Permission of department and completion of COM 201 are required prior to enrollment. (Offered on sufficient demand)

COM 368. (3) **Editing.** The processes of copy editing, proofreading, headline writing, and newspaper layout. Two class periods; one 2-hour laboratory per week. Prerequisite: COM 220. (Fall)

COM 370. (3) **Feature Writing.** Theories, techniques, and practice in writing feature articles for newspapers and magazines. Two class periods; one 2-hour laboratory per week. Prerequisite: COM 220. (Fall)

COM 374. (3) **Public Relations Cases.** Study of individual cases in the practice of public relations. May include field trip. Prerequisite: COM 230. (Spring)

COM 380. (3) **Announcing.** A lecture-demonstration-performance course in effective oral and visual communications for radio and television, including techniques for delivering commercials, news, sports, interviews, features, and dramatic presentations. May include field trip. Prerequisites: COM 200, 240, 316. Special fee: \$30.00. (Spring, odd-numbered years)

COM 386. (3) **Gender Communication.** Examines multiple relationships between communication and gender. Emphasizes how communication creates gender and power roles and how communicative patterns reflect, sustain, and alter social conceptions of gender. Also listed as WS 386 but creditable only in field for which registered. (Fall, odd-numbered years)

COM 390. (3) **Public Relations Writing and Research.** Theories, techniques, and practice in research and writing for public relations. Coursework will involve research for and writing of news releases, public service announcements, video news releases, feature stories for a variety of mediums and brochures. Prerequisites: COM 220, 230, 240, 374. (Fall, even-numbered years)

COM 400. (3) **Communication Law and Regulation.** An introduction to laws and regulations affecting the media in the United States. Topics include constitutional rights including speech, press, and privacy, relevant court decisions, and current regulation of electronic media. (Spring)

COM 402. (3) **Persuasion.** An analysis of the principles and techniques used in all forms of persuasive communication. The course includes both theoretical and applied work concerning the use of communication to produce specific attitudes within receivers. (Spring, even-numbered years)

COM 410. (3) **Desk-Top Publishing in Communications.** Preparation of newsletters, brochures, and small publications using current desktop publishing software. Two class periods; one 2-hour laboratory period per week. Prerequisite: COM 220 or permission of the department. (Fall)

COM 420. (1) **Portfolio Preparation.** Issues faced by graduates upon entering graduate school or the professional world. Topics include preparation of the professional portfolio, current market trends, and long-term professional prospects. Should be completed by all departmental majors in the last semester prior to graduation. Also listed as TH 420 but creditable only in field for which registered. (Fall, Spring)

COM 430. (3) **Advanced Radio-Television-Film Production I.** Theories and practice of the production of programs and films in the telecommunications industry. A final product suitable to the focus of the course will be required. Prerequisites: COM 240, 316. Special fee: \$30.00. (Fall)

COM 440. (4) **Organizational Communication.** An analysis of communication within complex organizations. Areas covered include communication auditing, interviews, decision-making, communication networks, and

problem solving. Three class periods; one 2-hour laboratory period per week. Also listed as MG 440 but creditable only in field for which registered. (Spring, odd-numbered years)

COM 442. (3) **Public Relations Campaigns.** Research, planning, management, and evaluation of public relations campaigns. Prerequisites: COM 220, 240, 374. (Fall)

COM 450W. (3) **Senior Seminar.** Discussion of a particular topic in the field of communications and theatre and preparation of an academic paper on a subject relevant to the topic. Also listed as TH 450 but creditable only in field for which registered. (Fall, Spring)

COM 460. (3) **Advanced Radio-Television-Film Production II.** A continuation of Radio-Television-Film 430. Prerequisite: COM 430. Special fee: \$30.00. (Spring)

COM 470. (3) **Electronic Media Management and Operations.** Problems of operating a facility involved in electronic media operations, including the social, legal, and economic responsibilities of the professional manager. May include field trip. Prerequisite: COM 316. (Fall)

COM 472W. (3) **Rhetoric: Argument and Style.** An examination of the ideas in writing and speech from classical Greek origins to modern times, with a focus on composition and on analysis of essays and speeches. Also listed as EN 472W but creditable only in field for which registered. (Spring, odd-numbered years)

COM 480. (3) **Topics in Communication.** Detailed examination of a specific topic in the field of communication. Topic will be announced prior to scheduling of the class. May include field trip. A \$30.00 special fee may be required according to the topic. (Fall, Spring)

COM 499. (3) **Independent Study-Internship.** Independent study and research under departmental supervision or special field experience under departmental determination and evaluation. Prerequisite: departmental approval required prior to registration. (Offered on sufficient demand)

COMPUTER SCIENCE (CS)

CS 110. (3) **Introduction to Computers.** Introduction to the elementary concepts of computers and their uses; common microcomputer applications including word processors, spreadsheets, database systems; introduction to the Internet. (Fall, Spring, Summer)

CS 120. (3) **Intermediate Computer Topics.** Installation of software and hardware, advanced use of applications and an introduction to programming. Prerequisite: CS 110 or the equivalent. (Offered on sufficient demand)

CS 155. (3) **Computer Science I.** An introduction to the theoretical foundations of computer science, the components of algorithms and the representation of these components using a high-level programming language. Special emphasis on software development and an introduction to object-oriented programming. Prerequisites: CS 120 and MA 112 or departmental approval. (Fall, Spring)

CS 210. (3) **FORTRAN Programming.** Programming using the high-level language FORTRAN; experience applying FORTRAN to the

solution of numerical and nonnumerical problems. Prerequisite: MA 112 or equivalent. (Offered on sufficient demand)

CS 245. (3) **Introduction to Discrete Structures.** Sets, functions and relations, basic logic, proof techniques, basics of counting, graphs and trees, discrete probability and number systems with applications to various areas of computer science. Prerequisites: CS 155 and MA 112. (Fall, Spring)

CS 255. (3) **Computer Science II.** Continuation of CS 155 with emphasis on advanced programming techniques, including recursion and pointers. Introduction to elementary data structures such as queues, stacks, lists, strings, and trees. Discussion of professional ethics. Programming methodology with emphasis on object-oriented programming. Prerequisite: C or better in CS 155. (Fall, Spring)

CS 310. (3) **Computer Organization and Assembly Language Programming.** Overview of computer hardware organization, machine representation of numbers and characters, memory system organization and architecture. Overview of system software. Programming experience in assembly language. Prerequisite: CS 245. (Fall)

CS 311. (3) **Computer Architecture.** Review of Boolean algebra and the elements of logic design including a laboratory experience. Study of the theory and design of register transfer, bus structure, arithmetic unit, control unit and memory. Consideration of design options including array processors, stack-based processors, pipelining, multiprocessing and distributed systems. Prerequisite: CS 310. (Fall)

CS 315. (3) **Graphical User Interface Programming.** Introduction to programming for modern graphical user interfaces using a visual programming tool. Topics include integrated development environments, object-oriented design, use of components and rapid application development. Prerequisite: CS 255.

CS 325. (3) **Programming for the Web.** Introduction to programming for the World Wide Web, using current technology. Prerequisite: CS 255.

CS 335. (3) **New Developments in Programming.** Introduction to a programming language of current interest. Problem solving appropriate to the selected language. Prerequisite: CS 255.

CS 355. (3) **Data Structures and Algorithms.** Introduction to the analysis of algorithms with regard to time and space. Methods of sorting and searching. Basic design techniques like divide and conquer, dynamic programming and backtracking. Algorithms for manipulating trees and graphs with platform independent implementation. Prerequisite: CS 255. (Fall)

CS 360. (3) **Computer Networking.** Introduction to computer networking including basic networking concepts and components, architecture, protocols, server types, network operating systems and network security. Prerequisites: CS 245 and CS 255. (Offered on a rotating basis with CS 447 and CS 470)

CS 390. (3) **Software Development in Ada.** A study of software development techniques with the use of the programming language Ada. Emphasis on abstraction, generic subprograms and packages. Prerequisite: CS 255. (Offered on sufficient demand)

CS 410W. (3) **Programming Languages.** Formal study of programming language concepts: syntax; characteristics of grammars such as context-free and ambiguous; Backus-Naur Form; organization of programming languages such as block structure, list processing, etc. Prerequisite: CS 255. (Fall)

CS 420. (3) **Operating Systems.** History, overview, and principles of operating systems with emphasis on process, memory and device management, concurrency, system performance, file systems, and security. Contemporary operating systems will be investigated. Multi-processors, real-time and embedded systems, and distributed processing will also be presented. Prerequisites: CS 310 and CS 355. (Fall)

CS 421. (3) **Automata Theory and Compiler Construction.** Definition of formal grammars, mathematical machines and their relationships. Description of compiler writing techniques and their application on a simple language. Prerequisite: CS 355. (Spring)

CS 447. (3) **Theory and Applications of Database Systems.** Introduction to database systems, including the history of the development and basic concepts of the major types of database systems, inquiry systems and experience with a database model. Prerequisite: CS 355. (Offered on a rotating basis with CS 360 and CS 470)

CS 455. (3) **Software Engineering.** A study of all the phases in a software system's life cycle including analysis, specification, design, implementation, testing, and maintenance. A continued emphasis on problem solving concepts integrated within the treatment of the software life cycle, requirements specifications, and verification and validation issues. Prerequisite: CS 255. (Spring)

CS 461. (3) **Numerical Analysis.** Error analysis for iterative methods; approximation theory; numerical differentiation and quadrature; initial value problems for ordinary differential equations; iterative techniques in matrix algebra. Also listed as MA 461 but creditable only in the field for which registered. Prerequisites: CS 155 or 210; MA 227. (Spring, even-numbered years)

CS 465. (3) **Computer Graphics.** Introduction to computer graphics; techniques used in interactive computer graphics. Topics include plotting, clipping, interpolation, curve fitting, 2D and 3D transformations. Prerequisite: CS 355. (Offered on sufficient demand)

CS 470. (3) **Artificial Intelligence.** A survey of topics including knowledge representation and reasoning, expert systems, heuristic vs algorithmic methods, search and constraint satisfaction, and the use of artificial intelligence languages. Prerequisite: CS 355. (Offered on a rotating basis with CS 360 and CS 447)

CS 490. (3) **Senior Seminar.** Computer science topics selected according to the needs of the students. Prerequisite: departmental approval. (Offered on sufficient demand)

ECONOMICS (EC)

EC 251. (3) **Principles of Macroeconomics.** An introduction to basic macroeconomic principles. Analysis of the determination of national income, employment, output, and prices. (Fall, Spring)

EC 252. (3) **Principles of Microeconomics.** An introduction to the price system and theory of the firm. Application of microeconomic theory to current economic issues. (Fall, Spring)

EC 320. (3) **Economic Growth and Development.** An analysis of the major causes and effects of economic underdevelopment. Specific problems and their possible solutions will be studied. Prerequisites: EC 251, 252.

EC 330. (3) **Comparative Economic Systems.** An analysis of capitalistic, socialistic, and communistic economies. Specific nations operating within the guidelines of each type of system will be examined with respect to pertinent theoretical concepts, historical trends, and current operational procedures. Prerequisites: EC 251, 252.

EC 340. (3) **Economics of the Firm.** Intermediate level microeconomic theory including demand theory and estimation, production theory, cost theory and estimation, market structure, and pricing. Prerequisites: EC 251, 252. (Fall)

EC 341. (3) **Intermediate Macroeconomic Theory.** A survey of contemporary macroeconomic theory, with emphasis on the determination of employment, national income, and an examination of monetary and fiscal policies. Prerequisites: EC 251, 252. (Spring)

EC 353. (3) **International Trade and Finance.** The international exchange of goods and services with particular attention to the bases of international trade; procedures in importing and exporting; commercial policies and treaties; foreign investments; balance of payments; tariffs, quotas, and other exchange controls. Also listed as FI 353 but creditable only in field for which registered. Prerequisites: EC 251, 252. (Fall)

EC 371. (3) **Labor Issues and Legislation.** A study of economic principles relating to labor, including the historical development of unionism, collective bargaining, labor disputes, the labor force, the labor market, labor legislation, and wage determination. Prerequisites: EC 251, 252.

EC 391. (3) **Money and Banking.** The relation of money to prices, employment and business activity. Analysis of money and capital markets, interest rate determination, and Federal Reserve control of the money supply. Also listed as FI 391 but creditable only in field for which registered. Prerequisites: EC 251, 252. (Fall, Spring)

EC 415. (3) **Regional and Urban Economics.** Analysis of problems and variables affecting development, growth, and industrialization of regional and urban areas. Prerequisites: EC 251, 252.

EC 425. (3) **Contemporary Economics and Finance Problems.** Application of economic and financial theory to problems or issues in economics and finance. Also listed as FI 425 but creditable only in field for which registered. Prerequisite: approval of department chair.

EC 428. (3) **History of Economic Thought.** A survey of the theories developed by the principal economic thinkers of history. The Greeks; scholastics; Malthus and Ricardo, Socialism and Marx; the marginal school; Neoclassical economics, Keynesian and contemporary thought. Prerequisites: EC 251, 252.

EC 453. (3) **Public Finance.** Economic activities of the public sector. The nature of public goods; principles of taxation; effects of policy on

economic stabilization and growth; intergovernmental fiscal relations. Also listed as FI 453 but creditable only in field for which registered. Prerequisites: EC 251, 252.

EC 454. (3) **Business and Government Relations.** Application of economic principles to the relationship between the government and the private sector of the economy. Statutory and administrative regulation of business, social responsibility of business. Prerequisites: EC 251, 252.

EC 473. (3) **United States Economic History.** The economic forces in agriculture, manufacturing, commerce, finance, transportation, and labor. The colonial age, the agricultural era, and the industrial state in America. Also listed as HI 473 but creditable only in field for which registered. (Fall)

EC 480. (3) **Economics Internship.** A work related experience in a private, public, or governmental organization enhancing the applications of economic theories and concepts. Must be a junior or senior. Prerequisites: EC 340, 341, and approval of department chair.

EC 499. (3) **Independent Study-Practicum.** Open to senior majors on approval of the department chair. Provides for study, research, or special field experience under departmental determination, supervision, and evaluation.

EARLY CHILDHOOD EDUCATION (ECE)

ECE 306. (3) **Arithmetic for Early Childhood Education.** Practical techniques and methods of guiding the learning experiences of the young child in arithmetic. The development and use of teaching materials and equipment in the early childhood education program, with emphasis on informal explanation and experimentation in Grades K-2.

ECE 309. (3) **An Introduction to Elementary Education.** An introduction to elementary education; its importance to the total education sequence and curriculum.

ECE 310W. (3) **Language Arts (K-2).** Preparing teachers to help children learn how to communicate in the areas of listening, speaking, reading, and writing during their early school years.

ECE 312. (3) **Creative Arts for Children.** To help the teacher of children develop an understanding of process and product in the creative arts. The learning setting, activities, and techniques for helping children explore, discover, and practically apply creative problem-solving through the creative arts will be studied. Special fee: \$30.00.

ECE 381. (3) **Reading K-2.** Practical techniques, theory, materials, and methods for guiding the young child in initial reading instruction.

EDUCATION (ED)

See enrollment restrictions.

ED 292. (1) **Preprofessional Seminar and Laboratory Experience.** Observation, participation, and orientation to the realities of the public school classroom. On-campus seminars supplemented by offcampus experience in public school classes. Available only to students with at least 45 hours. (Fall, Spring)

ED 295. (1) **Human Relations Training.** An interdisciplinary approach to human relations training. Selected subject areas include verbal and nonverbal communications skills; problems of basic emotional, personal, and behavioral functioning; and group dynamics. May be repeated up to three times. (Fall, Spring, Summer)

ED 299. (3) **Human Growth and Development.** Characteristics of and interrelationships among the physical, mental, social, and emotional aspects of human growth and development. Not applicable for credit toward a psychology major or minor. Also listed as PY 299 but creditable only in field for which registered. Prerequisite: PY 201. (Fall, Spring, Summer)

ED 331. (3) **Historical and Philosophical Foundations of American Education.** The historical development of the major education movements and philosophies which underlie present-day American education. (Fall, Spring, Summer)

ED 333W. (3) **Educational Psychology.** Individual differences, the principles of learning and the maintenance of a good learning atmosphere in the classroom. (Fall, Spring, Summer)

ED 340. (3) **Introduction to Teaching English as a Second Language.** This course is designed to introduce the history, principles, philosophy, laws pertaining to and best practices of teaching English as a Second Language (ESL). Additionally, it is designed to create an awareness and appreciation of the challenges and rewards inherent in working with limited English proficiency students and parents in schools and in the community.

ED 380. (3) **Methodology and Assessment of Teaching English as a Second Language.** This course examines the best practices of teaching and assessing ESL/LEP students and allows opportunities to apply this knowledge. This course will also review and evaluate current ESL instructional materials and examine and apply ways to modify and adapt content materials to better serve students who have limited English proficiency.

ED 382. (3) **Principles of High School Education.** The scope, function, organization, curriculum, and principles and practices in high schools. Prerequisites for undergraduate students: ED 333, 481. (Fall, Spring, Summer)

ED 383W. (3) **Materials and Methods of High School Teaching.** Unit organization of materials and lesson planning; general methods of teaching and classroom management; teaching methods in major fields. Prerequisite for undergraduate student: ED 382. (Fall, Spring)

ED 401. (3) **Evaluation of Teaching and Learning.** The construction of classroom tests, elementary statistical treatment of test scores, and the critical evaluation of various educational measurement devices. Prerequisites for undergraduate students: ED 333, 481. (Fall, Spring, Summer)

ED 402. (3) **Teaching in the Middle School.** Philosophy and organization of middle schools, characteristics of middle school students, organization of materials, teaching methods appropriate for grades 5-8. (Spring, every other year on sufficient demand)

ED 478. (1) **Teaching Reading in the Content Areas.** The identification and evaluation of reading skills with an emphasis on developing competencies and constructing reading exercises to improve skills using the content materials of secondary school subjects. (Fall, Spring, Summer)

*ED 481. (3) **Educational Technology.** An introduction to the role of technology as a teaching, learning and management tool in today's classroom. The course will develop skills needed to integrate the current technology into the instructional process, with special emphasis on using instructional software in the secondary classrooms. (Fall, Spring, Summer)

ED 482. (3-12) **High School Student Internship.** Supervised observation and teaching in high school classes; the study and use of materials of instruction, and the use of desirable teaching methods in learning situations. Prerequisite: completion of all professional education courses. Special fee: \$60.00. (Fall, Spring)

ED 484. (3-12) **Multilevel Student Internship.** Supervised observation and teaching in learning situations from the nursery school through the twelfth grade; the study and use of materials of instruction, and the use of appropriate teaching methods. Prerequisite: completion of all professional education courses. Special fee: \$60.00. (Fall, Spring)

ELEMENTARY EDUCATION (EED)

EED 305. (3) **Social Studies for the Elementary School Teacher.** Background for social studies instruction. Attention also will be given to teaching methods and aids.

*EED 324. (3) **Instructional Technology.** An introduction to the theory and practice of integrating technology in the instructional process, with special emphasis on using instructional software in classrooms.

EED 373W. (3) **Teaching the Language Arts — Grades 3-6.** Designed to develop an understanding of the content, organization, and procedures for teaching the language arts skills in the elementary school.

EED 374. (3) **First Year Teacher.** A practical study of the realities and complexities of teaching in today's elementary schools with emphasis on knowledge/skills necessary for a successful initial teaching experience. Special focus on the unique experiences associated with the first year including professional responsibilities, teacher-evaluation, and self-improvement.

EED 377. (3) **Teaching Reading in the Middle/Upper Elementary Grades (3-6).** A study of research-based instructional practices for middle and upper elementary students (grades 3-6). Emphasis on cognitive strategies used by proficient readers to achieve comprehension.

EED 380. (3) **Evaluation and Remediation of Reading Problems.** An analysis of reading disabilities in elementary children, with an emphasis on evaluating these reading difficulties and planning appropriate interventions.

EED 401. (3) **Evaluation of Teaching and Learning.** The construction of classroom tests, elementary statistical treatment of test scores, and the critical evaluation of various educational measurement devices.

*Fulfills computer literacy requirement.

EED 472. (12) **Elementary Education Student Internship.** Observation, the study of learners, the study and use of desirable teaching methods in learning situations, grades kindergarten through six. Each intern will have two grade placements during the semester. One placement will be in a lower elementary grade and one placement will be in an upper elementary grade. The student internship experience is a full day, full semester experience. Prerequisite: completion of all professional education courses. Special fee: \$60.00. (Fall, Spring)

SPECIAL EDUCATION (EEX)

EEX 340. (3) **Introduction to Students with Disabilities.** A survey course in the education of students with disabilities. This course provides information on the various disabilities and facilitates an understanding of the basic special education services and adaptations provided to individuals with disabilities.

EEX 341. (3) **Accommodating Student Diversity in K-6 Classrooms.** Providing for student diversity in the regular classroom with emphasis on students with disabilities and students who are culturally different.

EEX 350. (3) **Classroom Management.** An overview of theory and practice in establishing and maintaining classroom environments that maximize the learning experience. Overview of popular approaches to maintaining discipline and managing the classroom experience. Survey of data-based approaches to program design and individualization of instruction. Emphasis on applied behavior analysis techniques for control of classroom behavior and for accelerating academic learning.

ENGLISH (EN)

EN 231 or EN 233 is prerequisite to all courses in English numbered 300 and above.

*Students will not be allowed to withdraw from non-credit courses unless they are completely withdrawing from school. In cases of complete withdrawal, a grade of **WS**, Withdrawal Satisfactory, or **WU**, Withdrawal Unsatisfactory, will be assigned. Grades of **WS** or **WU** have no effect on the student's scholastic standing.*

EN 099. (0) **Basic English.** A noncredit course in basic grammar and composition required of all students with scores of 15 or below on the ACT English Subtest. Counts as three semester hours in determining hour load. Grading is **S** (Satisfactory) or **U** (Unsatisfactory). On a grade of **U** the student may repeat the course; on a grade of **S** the student proceeds to enrollment in English 111. English 099 may be repeated only once; after the second term in English 099 the student, no matter what the grade, must proceed to enrollment in English 111. (Fall, Spring)

EN 101. (2-4) **English as a Second Language I.** An introduction to spoken and written English for students who are not native speakers of the language. Placement by TOEFL examination and/or by departmental recommendation only.

EN 102. **(2-4)English as a Second Language II.** A continuation of training in spoken and written English for students who are not native speakers of the language. Prerequisite: EN 101 or departmental placement.

EN 111. (3) **First-Year Composition.** An introduction to expository writing, rhetoric, and reading. The acquisition of the basic skills in standard English is stressed. Grades in EN 111 are A, B, C, NC (no credit). Students receiving a grade of NC must repeat the course. (See Department of English narrative) (Fall, Spring, Summer)

EN 112. (3) **First-Year Composition II.** A continuation of training in expository writing and reading, stressing the acquisition of higher-level skills in standard English and the introduction to the basic tools and processes of academic research. Grades in EN 112 are A, B, C, NC (no credit). Students receiving a grade of NC must repeat the course. (see Department of English narrative) Prerequisite: EN 111. (Fall, Spring, Summer)

EN 121. (3) **First-Year Composition Honors.** Accelerated training in expository writing and reading taken in lieu of English 111 by superior freshman students selected on the basis of placement tests. Grades in EN 121 are A, B, C, NC (no credit). (See Department of English narrative) Students receiving a grade of **NC** in English 121 must enroll in the regular Freshman English sequence, beginning with English 111. (Fall)

EN 122. (3) **First-Year Composition Honors II.** A continuation of the accelerated training begun in English 121, stressing the development of advanced skills in several modes of composition as well as the acquisition and development of skills in academic research. Grades in EN 122 are A, B, C, NC (no credit). (See Department of English narrative) Students receiving a grade of **NC** in English 122 complete the sequence by enrolling in English 112. Prerequisite: EN 121. (Spring)

EN 231. (3) **Literature of the Western World.** A survey of selections from the great literature of the western world, covering major writers of the Ancient World, the Middle Ages, and the Renaissance. Prerequisite: EN 112 or 122. (Fall, Spring, Summer)

EN 232. (3) **Literature of the Western World.** A continuation of the study of the great works of the western world, covering writers from the Neoclassic to the Modern Ages. Prerequisite: EN 112 or 122. (Fall, Spring, Summer)

EN 233. (3) **Honors Studies in Western Literature I.** An intensive survey of the literature of the western world through the Renaissance. In-depth reading in the works of selected authors will be required and written reports and/or research projects will be expected of each student. Prerequisite: EN 122 or departmental approval. (Fall)

EN 234. (3) **Honors Studies in Western Literature II.** An intensive study of the literature of the western world from the period of Neoclassicism to the Modern Age. In-depth reading of the works of selected authors will be required and written reports and/or research projects will be expected of each student. (Spring)

EN 300W. (3) **Technical Writing.** Training in such writing as may be necessary in certain professional and scientific fields. Emphasis is placed on writing of memoranda, letters, technical reports, and research reports. (Spring, odd-numbered years; Summer, even-numbered years)

EN 301. (3) **Romantic Poetry.** Extensive reading in Wordsworth, Coleridge, Byron, Shelley, and Keats. (Fall, even-numbered years)

EN 302. (3) **Romantic and Victorian Poetry.** Extensive reading in the works of major poets of two important literary periods. (Fall, odd-numbered years)

EN 303. (3) **Restoration and Eighteenth-Century British Literature.** Extensive reading in Restoration and Eighteenth-Century British Literature. (Offered on sufficient demand)

EN 304. (3) **Honors Seminar–Literature.** A seminar for students in the honors sequence in English. Concentrated study in specific narrow areas of literature. Prerequisite: 12 hours of honors courses in English or departmental approval. (Fall)

EN 305. (3) **African-American Women Writers.** An examination of the writings of African-American women beginning with the slave narrative and ending with contemporary poetry, fiction, and drama. Also listed as WS 305 but creditable only in field for which registered. (Offered on sufficient demand)

EN 306. (3) **Introduction to English Linguistics.** Introduction to concepts of English linguistics such as phonology, morphology, syntax, acquisition, and variation. Not creditable to English Options I and II. (Fall, even-numbered years)

EN 311. (3) **Survey of English Literature.** The development of English literature as an expression of English culture from Beowulf through Neoclassicism. (Fall; Summer, odd-numbered years)

EN 312. (3) **Survey of English Literature.** A continuation of English 311 from the Pre-Romantics to the present. Recommended in sequence. (Spring; Summer, even-numbered years)

EN 321. (3) **American Literature through Whitman.** Major American poets and prose writers of the period. (Fall; Summer, even-numbered years)

EN 322. (3) **American Literature from Whitman to the Present.** Major American poets and prose writers of the period. Recommended in sequence. (Spring; Summer, odd-numbered years)

EN 323. (3) **Literature for Young People.** Literature suitable for instructional and recreational use by middle school/junior high school and high school students. (Spring; Fall, even-numbered years)

EN 324. (3) **The Oral Tradition.** An examination of the structure, genres, and differing attitudes of written and oral literature as well as those periods in literary history in which oral literature has flourished. (Spring, odd-numbered years; Summer even-numbered years)

EN 331. (3) **World Literature.** Reading of world literature in translation, from Greek classics to the modern Russian novel. (Spring, odd-numbered years; Summer, even-numbered years)

EN 333. (3) **Images of Women in Literature.** An examination of images of women in literature drawn primarily from the works of women writers in English and American literature of the nineteenth and twentieth centuries; an introduction to feminist criticism. Also listed as WS 333 but creditable only in field for which registered. (Spring, even-numbered years)

EN 341W. (3) **Advanced Composition.** Practice in expository writing beyond that offered by Freshman Composition. (Fall; Spring, odd-numbered years)

EN 351. (3) **The American Novel.** From the beginning of the American novel to the twentieth century. (Spring, even-numbered years)

EN 352. (3) **The American Novel.** Intensive study of the works of selected American authors. (Offered on sufficient demand)

EN 360. (3) **Literary Criticism.** Major critical trends in literary theory, with emphasis on criticism since 1965, including feminist, Marxist, structuralist and deconstructive approaches to literature. Exploration on these theories and analysis of selected works of literature. (Spring, odd-numbered years)

EN 371. (3) **English Drama.** English Drama from its sources through the nineteenth century, excluding Shakespeare. (Offered on sufficient demand)

EN 401. (3) **Chaucer.** The Canterbury Tales, Troilus and Criseyde, and most of the minor poems. (Fall, even-numbered years; Summer, odd-numbered years)

EN 402. (3) **Milton.** Although some prose works are studied, the emphasis is upon Milton as a poet. (Fall, odd-numbered years; Summer, even-numbered years)

EN 403. (3) **Shakespeare.** Major plays for understanding and appreciation. (Fall, Spring)

EN 405. (3) **African-American Literature.** An investigation of the development of African-American literature and an examination of selected writers of poetry, drama, fiction, and nonfiction. (Fall, odd-numbered years)

EN 439W. (3) **Technical Editing.** Training in copy editing and practice in substantive editing skills in content, organization, and format. Students will focus on using typographic conventions, scientific symbols, style manuals, and publication guides. (Fall, even-numbered years)

EN 441. (3) **History of the English Language.** Development of the English language and of modern English usage. (Fall; Summer, odd-numbered years)

EN 442. (3) **Survey of Grammar.** A survey of approaches to English grammar based on approaches now used in most school texts. Prerequisite: EN 441 or written permission of department chair. (Spring, odd-numbered years; Summer, even-numbered years)

EN 443. (3) **Instruction of Composition.** Approaches to and practice in the instruction of English composition. (Fall, Spring, Summer, odd-numbered years)

EN 450. (3) **Studies in American Folklore.** A study of the sources, backgrounds, and forms of American folklore. Introduction to the field. Emphasis is given to research methods and to field work. (Spring, even-numbered years)

EN 451. (3) **Language and Culture.** The study of language as it relates to all levels of culture. (Offered on sufficient demand)

EN 453. (3) **The English Novel.** Representative works in the development of the English novel. (Spring, even-numbered years)

EN 454. (3) **The English Novel.** Intensive study of selected English authors. (Offered on sufficient demand)

EN 455W. (3) **Creative Writing.** A practical approach to learning literary techniques through lecture, discussion, and conference with the instructor on individual student works. Prerequisite: written permission of the chair of the department. (Fall)

EN 456W. (3) **Advanced Creative Writing.** A practical approach to literary techniques and writing for publication, with special emphasis on structure, theme, and characterization. Class discussion will be supplemented by conferences with the instructor. Prerequisite: EN 455. (Spring, even-numbered years)

EN 463. (3) **Contemporary World Literature.** A study of the changing forms and themes of recent world literature from 1950 to the present. (Fall, odd-numbered years)

EN 464. (3) **The Contemporary American Novel.** A study of the changing forms and emerging themes of the American novel since 1950. (Fall, even-numbered years)

EN 465. (3) **Contemporary Poetry.** Extensive reading in the works of contemporary British and American poets, with emphasis on their relationship to the literary traditions of the past and their innovations and experiments in matter and form. (Spring, even-numbered years)

EN 472W. (3) **Rhetoric: Argument and Style.** An examination of the ideas in writing and speech from classical Greek origins to modern times, with a focus on composition and on analysis of essays and speeches. Also listed as COM 472W but creditable only in field for which registered. (Spring, odd-numbered years)

EN 490. (3) **English Internship/Practicum.** Special problems and projects emphasizing practical experience in professional job situations in writing through field assignments under departmental supervision. Prerequisite: written permission of the chair of the department. (Fall, Spring, Summer)

EN 495. (3) **Selected Topics in Writing.** Designed to provide concentrated study in specific areas of written composition. (Offered on sufficient demand)

EN 496. (3) **Selected Topics in English Literature.** Concentrated study in narrow areas of English literature. (Spring, odd-numbered years, if demand sufficient)

EN 497. (3) **Selected Topics in American Literature.** Concentrated study in narrow areas of American literature. (Fall, even-numbered years, if demand sufficient)

EN 498. (3) **Selected Topics in Literature.** Concentrated study in specific narrow areas of world literature. (Spring, even-numbered years, if demand sufficient)

EN 499. (3) **Independent Study.** Open to senior majors on approval of department head. Provides for independent study or research under departmental determination, supervision, and evaluation. Prerequisite: written permission of the chair of the department. (Fall, Spring, Summer)

ENTERTAINMENT INDUSTRY MANAGEMENT (ENT)

ENT 225. (3) **Survey of the Music Industry.** Various aspects of the music industry are covered including music publishing, the record company, studio techniques, and production. (Fall, Spring)

ENT 300. (3) **Songwriting and Analysis.** The art, craft, and business of writing contemporary popular songs is studied through analysis of popular songs on the music trade publication charts, practical original song composition, and participation in listening workshop experiences. Prerequisite: MU 100 or equivalent, or departmental approval. Special fee: \$30.00. (Spring)

ENT 325. (3) **Music Publishing.** Covers publishers' and writers' obligations, different forms and laws of copyright protection, royalties, and foreign publishing. Prerequisite: ENT 225 or departmental approval. (Fall)

ENT 329. (3) **Record Company Operations.** How a record company operates. Association between recording company and artists, managers, bookers, publishers, and studios. Prerequisite: ENT 225. (Spring)

ENT 335. (3) **Survey of Audio Recording.** Audio recording techniques of professional studio recording are studied including basic audio electronics, analog and digital tape machines and related outboard recording gear, microphones, studio set-up; and recording, mixing, editing, and engineering functions of studio recording. The relative place and significance of recording studio operations is presented. Departmental approval required. Special fee: \$30.00. (Fall, Spring)

ENT 425. (3) **Recording Techniques.** The technical characteristics, appropriate functioning, and skill-development associated with all components of the recording studio will be studied including such topics as digital and analog recording, studio maintenance, mixing, overdubbing, editing, tape machine alignment, recording session engineering and control room tuning. Prerequisites: ENT 335; PH 121, 347. Special fee: \$30.00. (Fall)

ENT 426. (3) **Production.** Production roles, artist roles, and financial roles from conception to the finished recording. Students are responsible for finding recording artists and completing the pre-production, in-studio, and post-production phases of the recording process. Prerequisites: ENT 335; PH 121, 347. Special fee: \$30.00. (Spring)

ENT 430. (3) **Music Technology and Midi.** Musical Instrument Digital Interface (MIDI) instrumentation and their application to practical recording use will be studied including sampling, synthesized sound generation, computers and orchestral instrument sound generators. Practical recording exercises will follow student creative project preparation. Prerequisites: CIS 125 or CS 110; ENT 335; PH 121. Special fee: \$30.00. (Fall)

ENT 435. (3) **History of Recorded Music.** Study of commercial music recording from early American popular music and ballads through the various popular music styles of blues, jazz, rock and other significant genres of recorded music through the present day. Selected examples from the various commercial music charts will be studied, analyzed, and evaluated to discover significant emerging and continuing patterns of recorded styles. (Fall)

ENT 470. (3) **Entertainment Industry Law.** A study of procedures, principles, and practices of law and management in the entertainment industry including such areas as intellectual property rights, artists, contracts and negotiations, torts, criminal activity in the industry, and other legal and managerial issues associated with the performing arts. (Spring)

ENT 480W. (3) **Senior Seminar.** Focus on various topics in the field of entertainment for discussion and the preparation of position papers on related issues. Opportunity for active participation in relevant industry topics of concern will be afforded whenever possible. (Fall, Spring, Summer)

ENT 490. (1-3)**Special Topics.** Topics selected for investigation and reports from the field of entertainment with departmental approval. May be repeated, but may not exceed a total of three semester hours. (Fall, Spring, Summer)

ENT 495. (3) **Entertainment Internship/Practicum.** Selected problems and practice emphasizing actual professional work situations in the field of entertainment through special study, projects or field experience under departmental supervision and evaluation. May be repeated once. Prerequisites: completion of all entertainment course work and at least 100 semester hours toward the degree plus departmental approval. (Fall, Spring, Summer)

EARTH SCIENCE (ES)

ES 121. (3) **Earth Science.** Major concepts of astronomy, geology, and meteorology with selected examples of interrelationships. Recommended for the student whose curriculum includes a year of science. Prerequisite or concurrent: ES 121L. (Fall, Spring, Summer)

ES 121L. (1) **Earth Science Laboratory.** Laboratory for ES 121 consisting of exercises in astronomy, meteorology and geology (rocks, minerals, fossils, maps). Saturday field trip may be offered. Prerequisite or concurrent: ES 121. Special fee: \$30.00. (Fall, Spring, Summer)

ES 131. (4) **Physical Geology.** Basic principles governing the dynamic earth including earthquakes, volcanism, plate tectonics, and erosion. Special attention given to the origin and identification of rocks and minerals. Three class periods; one 2-hour laboratory period per week. Field trips and/or term projects may be required. Special fee: \$30.00. (Fall)

ES 132. (4) **Historical Geology.** The development of the earth as deduced from the examination and interpretation of rocks. Special attention given to the identification and significance of fossils. Three class periods; one 2-hour laboratory period per week. Field trips and/or term projects may be required. Prerequisites: ES 121 and ES 121L, or ES 131, or departmental approval. Special fee: \$30.00. (Spring)

ES 245. (4) **Mineralogy.** Crystal chemistry, crystallography; physical properties of minerals; mineral stability, identification, and occurrence. Three class periods; one 2-hour laboratory per week. Field trips and/or term projects may be required. Prerequisite: ES 131. Special fee: \$30.00. (Spring, even numbered years)

ES 300. (1-3)**Geology Seminar.** Current topics in geology will be read and discussed. Students are expected to make at least one oral pres-

entation. May be repeated to a maximum of three credit hours. Prerequisite: junior or senior geology majors or minors. (Fall, Spring)

ES 308. (3) **Science for the Elementary School Teacher.** Selected topics from elementary school science teaching units, including biology, chemistry, physics, geology, astronomy, and meteorology; practical techniques in the development and use of teaching materials and science equipment, the collection and preservation of specimens, and demonstration; consideration of the role of science in the elementary school; study of new curricula. This course cannot be used as a 300-level elective in any major or minor other than Elementary Education. Prerequisites: BI 101, 102; ES 121 and ES 121L; PH 101. Special fee: \$30.00. (Fall, Spring)

ES 312. (3) **Economic Geology.** Occurrence and geology of rocks and minerals used in today's society. Attention will also be given to oil and gas exploration techniques and interpretation of subsurface well logs. Field trips and/or term projects may be required. Prerequisite: ES 131. (Spring, odd-numbered years)

ES 330. (3) **Meteorology.** Components of weather systems; atmospheric temperature, pressure, and humidity; interpretation of weather maps and elements of forecasting. Also listed as GE 330 but creditable only in field for which registered. Field trips and/or term projects may be required. Prerequisite: ES 121 and ES 121L, or GE 111 or departmental approval. (Fall)

ES 345. (4) **Petrology.** Origin of igneous, sedimentary, and metamorphic rocks and their relation to tectonic processes. Classification and description of all rock types as seen in hand specimens. Limited petrographic microscopic work. Three class periods; one 2-hour laboratory period per week. Field trips and/or term projects may be required. Prerequisite: ES 245. Special fee: \$30.00. (Fall, even numbered years)

ES 375. (3) **Technology and the Environment.** A course designed to acquaint the student with the dynamic state of our technological world; interrelationships of pollution, energy, natural resources, food, and populations, with emphasis on human health issues. Field trips and/or term projects may be required. Prerequisite: advanced standing or departmental approval. (Spring, odd-numbered years)

ES 380. (3) **Teaching Science in the Secondary Schools.** Examines the problems of teachers in secondary science in integrating laboratory activities into the science curriculum. Provides experiences in planning, preparation, teaching and evaluation of laboratory activities. Considers the use of technology, safety, hazardous waste, teaching resources, student textbooks, and the Alabama Course of Study. Two class periods; one 2-hour laboratory period per week. Field trip and/or term project may be required. This course cannot be used as a 300-level elective in any major or minor other than secondary education. Also listed as BI 380, CH 380, and PH 380 but creditable only in the field for which registered. Special fee: \$30.00. (Fall, even-numbered years)

ES 421W. (4) **Applied Paleontology.** Taxonomic principles, biostratigraphy, paleoecology, significance of forms and specimens for study will be addressed. Three class periods; one 2-hour laboratory period per

week. Field trips and/or term projects may be required. Prerequisite: ES 132 or departmental approval. Special fee: \$30.00. (Fall, even-numbered years)

ES 431. (3) **Structural Geology**. The nature, classification, origin, and quantification of geologic structures, with emphasis on sedimentary rocks. Field trips and/or term projects may be required. Prerequisite: ES 131. (Fall, odd-numbered years)

ES 431L. (1) **Structural Geology Laboratory**. Laboratory analysis, including computer mapping of folds, faults, and other structural features. Laboratory exercises are designed to develop computer skills. Required for geology major. One 2-hour laboratory period per week. Prerequisite: concurrent enrollment in ES 431. (Fall)

ES 441. (4) **Stratigraphy and Sedimentology**. Description, organization, and classification of stratified rocks and the processes involved in the formation of sedimentary rocks. Field trips and/or term projects required. Prerequisite: ES 132. (Fall, odd-numbered years)

ES 480-481. (1-4) **Topics in Earth Science**. Topics will be selected from astronomy, environmental science, geology, marine geology, meteorology, and oceanography. Departmental approval required. Special fee: \$30.00 (may be required depending on the topic). (Offered on sufficient demand)

ES 486. (6) **Geology Field Camp**. A broad, in-depth course that covers all aspects of field geology. The purpose of this course is to train students to interpret and write about a variety of geological areas and improve their skills in solving geological problems. Typical projects include mapping of structures and deformation, sedimentary, metamorphic and igneous rock complexes, create cross sections and stratigraphic columns, explore hydrogeologic and geophysical field applications, integrate GPS and aerial photo interpretation, and use computer aided drafting to develop professional quality geological maps, diagrams, and illustrations. Fees will vary. (Summer)

ES 488. (3) **Hydrogeology**. The interrelationships between water and geologic materials and processes, primarily subsurface water. Prerequisite: ES 131. (Spring, even-numbered years)

The following earth science courses are offered in summer sessions at the Sea Laboratory of the Marine Environmental Sciences Consortium located on Dauphin Island. Special fees for each course are determined by the consortium. Full information may be obtained from the department chair.

ES 205. (2) **Marine Technical Methods**. An introduction to the hardware of marine science, sampling procedures, processing, station location, field maintenance/operation. Also listed as BI 205 but creditable only in the field for which registered. Prerequisite: basic science major.

ES 228. (4) **Ocean Science**. An introduction to the study of the oceans, their physical and chemical parameters, the life within them, and their relationship to man. Also listed as BI 228 but creditable only in the field for which registered.

ES 328. (3) **Coastal Zone Management.** A review of ecological features and physical management policies for coastal communities with a description of relevant federal and state programs.

ES 332. (2) **Coastal Climatology.** An introduction to the physical factors which result in climate conditions of coastal regions, with emphasis on the northern Gulf of Mexico. Prerequisite: ES 131 or GE 111.

ES 340. (4) **Marine Geology.** Geology of the ocean basins with special emphasis on the continental shelves, their sediments, and the sedimentary processes at work there. Prerequisite: ES 131; course in introductory statistics suggested.

ES 425. (4) **Introduction to Oceanography.** An introduction to the physics, chemistry, geology, and biology of the oceans. Also listed as BI 425 but creditable only in the field for which registered. Prerequisite: general biology, marine biology, or graduate standing.

FINANCE (FI)

FI 105. (3) **Personal Finance.** Personal financial management: study of personal financial records and planning, investments, insurance, home ownership, interest rates and borrowing, tax preparation, and trends in consumer legislation. Not open to business majors beyond freshman year. (Fall, Spring)

FI 325. (3) **Principles of Real Estate I.** A study of real estate fundamentals including problems and law. (Fall, Spring)

FI 326. (3) **Principles of Real Estate II.** Principles of property utilization; the law dealing with ownership, titles, liens, leases, and contracts; introduction to property appraisal.

FI 327. (1) **Real Estate Practicum.** An intensive study of Alabama Real Estate Law including a study of requirements for obtaining and keeping a real estate license. With FI 325, satisfies the 60 hours of formal education required prior to taking the examination for a Alabama real estate sales person's license. (Fall, Spring)

FI 335. (3) **Real Estate Cases.** A study of practical real estate problems and law with emphasis placed on actual cases which practitioners might face.

FI 353. (3) **International Trade and Finance.** The international exchange of goods and services with particular attention to the bases of international trade; procedure in importing and exporting; commercial policies and treaties; foreign investments; balance of payments; tariffs, quotas, and other exchange controls. Also listed as EC 353 but creditable only in the field for which registered. Prerequisites: EC 251, 252. (Fall)

FI 355. (3) **Principles of Insurance.** A study of risk management and provisions of basic insurance contracts, including life, property, liability, and health insurance. (Fall)

FI 365. (3) **Property and Casualty Insurance.** Coverages, policy provisions, and concepts in property and casualty insurance.

FI 375. (3) **Life and Health Insurance.** An introductory study of life and health insurance. (Spring)

FI 385. (3) **Entrepreneurial Finance.** Focusing on the basic principles of financial management, topics covered include working capital management, including management of cash, receivables and inventory; financial statement analysis, including ratios, benchmarking, and cash flow; sources of financing, including venture capital, the initial public offering, and the continuing need to raise debt or equity. Prerequisites: AC 291, 292.

FI 391. (3) **Money and Banking.** The relation of money to prices, employment and business activity. Analysis of money and capital markets, interest rate determination, and Federal Reserve control of the money supply. Also listed as EC 391 but creditable only in field for which registered. Prerequisites: EC 251, 252. (Fall, Spring)

FI 393. (3) **Financial Management.** Valuation of stocks and bonds risk and rates of return; topics in capital budgeting, cost capital, work-ing capital management, and ratio analysis. Prerequisites: AC 291, 292; EC 251, 252; QM 292. (Fall, Spring)

FI 394. (3) **Intermediate Financial Management.** An in-depth study of day to day problems of corporate financial management with emphasis on financial planning and management of current assets, short and intermediate term financing. Also examines dividend policy, capital expenditures, acquisitions, mergers, and reorganization. Prerequisites: AC 291, 292; EC 251, 252; FI 393; QM 292.

FI 423. (3) **Financial Institutions Management.** A study of the operations of financial institutions with emphasis on organization, sources and allocation of funds including asset, liability, and capital structure management, and government regulation. Prerequisite: FI 393 or approval of the department chair.

FI 425. (3) **Contemporary Economic and Finance Problems.** Application of economic and financial theory to problems or issues in economics and finance. Also listed as EC 425 but creditable only in the field for which registered. Prerequisite: approval of department chair.

FI 430. (3) **Real Estate Appraisal.** Methods of appraisal and theories of value as applied to income and residential properties.

FI 440. (3) **Real Estate Finance.** An in-depth study of methods of financing real estate, with particular attention to traditional and alternative methods, secondary mortgage markets, and government financing of real estate including FHA, FNMA, and VA programs.

FI 445. (3) **Real Estate Investments.** Ownership of real estate as an investment; residential, business, and industrial real estate from the standpoint of investment risk, taxation, and profit; income and cash flow analysis.

FI 446. (3) **Real Estate Development and Management.** Analysis of the real estate development process and the functions performed by the real estate developer. Emphasis on residential and retail development and the management of developed properties after construction. Examines the relationships between the developer and others involved in the development process such as lenders, local governments, builders, and others. Prerequisite: FI 393.

FI 453. (3) **Public Finance.** Economic activities of the public sector. The nature of public goods; principles of taxation; effects of policy on economic stabilization and growth; intergovernmental fiscal relations. Also listed as EC 453 but creditable only in the field for which registered. Prerequisites: EC 251, 252.

FI 470. (3) **TVA Investment Challenge.** The TVA Investment Challenge is a remarkable opportunity to offer students a real-world learning experience in investment management. The Tennessee Valley Authority (TVA), through the TVA Nuclear Decommissioning Trust Fund, has created a program for students to manage a \$100,000 portfolio. The students will design a long-term management strategy and actively manage the funds. The students are required to conduct economic, industry, and company analysis. May be repeated with approval of department chair. Prerequisites: FI 393 and approval of committee; junior or senior standing.

FI 480. (3) **Finance Internship.** A work related experience in a private, public, or governmental organization enhancing the applications of finance theories and concepts. Must be a junior or senior. Prerequisites: FI 391, 393, and approval of department chair.

FI 486. (3) **Risk Management.** Risk management techniques. Identification and analysis of loss exposures and selecting risk management alternatives for various types of losses. Prerequisite: FI 355.

FI 492. (3) **Investments.** Investors; the forms of institutions; corporate securities and speculation; uncertainty, liquidity, and taxability; security analysis; and government controls. Prerequisites: AC 291, 292; EC 251, 252. (Fall)

FI 494. (3) **Capital Budgeting.** Advanced topics in capital budgeting including the capital assets pricing model, cost of capital, risk and certainty equivalents. Prerequisites: FI 393 and approval of the department chair.

FI 495. (3) **Security Analysis and Portfolio Theory.** Methods of security analysis portfolio selection and capital market theory. Prerequisites: FI 393, 492. (Spring)

FI 498. (3) **Cases in Finance.** A study of financial problems of business, applying financial theory to actual cases with the use of simulation techniques. Prerequisites: FI 393 and approval of the department chair.

FI 499. **(3-6)Independent Study-Practicum.** Open to senior majors on approval of the department chair. Provides for study, research, or special field experience under departmental determination, supervision, and evaluation.

FOREIGN LANGUAGES (FL)

FL 100. (3) **Introduction to Language.** A summary, for all undergraduates, of what is known about human language; social and regional dialects; origins of words; diversity and universality in language structure; phonetics; changes in language; language acquisition; the relation of language to other aspects of human inquiry and knowledge. (Fall, Spring, Summer)

FL 101. (3) **Introduction to International Studies.** Introduction to the analysis of issues which cut across countries and cultures. Lectures, classroom discussions, readings and films will explore culture shock, aspects of cultural and national identity, cultural relativity, cross-cultural interaction and conflicts, American and foreign values, and language issues as these relate to international and inter-cultural relationships and understanding. The course will focus on developing an ability to analyze subtle interactions of politics, economics, and culture within the global systems. (Spring)

FL 200. (3) **Power Vocabulary.** Analysis and intensive practice of words used in educated speaking and writing. Aimed also at enhancing performance on the verbal component of standardized tests. (Fall)

FL 301. (3) **Culture through Cinema.** Using the medium of film accompanied by cultural readings and research, this course provides for the study of various aspects of the culture and civilization, primarily of French, German and Spanish speaking countries. Open to all students. No foreign language experience required. (Spring, Summer)

FL 302. (3) **Cross-Cultural Interaction.** A study of the ways in which differences in languages, perceptions, behaviors, social norms and traditions influence how people from different cultures interact; analysis and discussion of various social and business situations to identify and address the consequences of linguistic and cultural differences, and the need for multicultural education, including the roles of language and ethnicity in a multicultural society. (Fall, Summer)

FL 498. (1) **Senior Seminar.** Complete review of the grammar of the option language in preparation for the department exit exam. Discussion and research of key issues associated with foreign language learning and the role of foreign languages in education and in commercial contexts. To be taken during the final semester of instruction. FL 498 can be substituted for FR 498, GR 498, and SP 498. Prerequisite: 18 hours of selected option language at the 300 and 400 level. (Fall, Spring)

FRENCH (FR)

FR 101. (3) **Introductory French.** Emphasizes listening, speaking, reading and writing skills. Basic concepts of grammar are introduced. Course is enhanced with audio, video, software and Internet components. No prior knowledge of the language is required. (Fall)

FR 102. (3) **Introductory French.** A continuation of French 101. Prerequisite: FR 101 or equivalent. (Spring)

FR 111. (1) **Language Laboratory.** Required of all students enrolled in Introductory French 101. Two 1-hour laboratory periods per week. Special fee: \$30.00. (Fall)

FR 112. (1) **Language Laboratory.** Required of all students enrolled in Introductory French 102. Two 1-hour laboratory periods per week. Special fee: \$30.00. (Spring)

FR 201. (3) **Intermediate French.** Review and expansion of grammar and vocabulary. Speaking, listening, reading, and writing skills further developed. Prerequisite: two years of high school French or FR 102. Special fee: \$30.00. (Fall)

FR 202. (3) **Intermediate French.** A continuation of French 201.

Prerequisite: FR 201 or equivalent. Special fee: \$30.00. (Spring)

FR 350. (3) **Conversation and Pronunciation.** Thematic approach to improvement of conversational skills in French combined with limited study of corrective phonetics for accuracy in pronunciation. Prerequisite: FR 201 or departmental approval. (Fall, even-numbered years)

FR 351. (3) **Written Expression in French.** Development of writing skills with an emphasis on vocabulary-building, grammatical accuracy, and the mastery of a variety of styles. Prerequisite: FR 201 or departmental approval. (Spring, odd-numbered years)

FR 352. (3) **Civilization and Culture.** Study of the history of French speaking civilization with emphasis on contemporary cultural patterns. Prerequisite: FR 201 or departmental approval. (Spring, even-numbered years)

FR 353. (3) **Commercial French.** Introduction to commercial language by means of oral and written practice. Prerequisite: FR 201 or departmental approval. (Fall, odd-numbered years)

FR 400W. (3) **French Poetry.** Survey of French poetry from its origins to the present with emphasis on the Romantic period. Prerequisite: FR 202. (Fall, even-numbered years)

FR 401W. (3) **French Drama.** Survey of French drama from its origins to the present with emphasis on the Classical Theatre. Prerequisite: FR 202. (Spring, odd-numbered years)

FR 402W. (3) **French Novel.** Survey of French novel from its origins to the present with emphasis on the nineteenth and twentieth centuries. Prerequisite: FR 202. (Fall, odd-numbered years)

FR 403W. (3) **Advanced Commercial French.** A study of commercial language used in French language business transactions and correspondence. Prerequisite: FR 353. (Spring, even-numbered years)

FR 498. (1) **Senior Seminar.** Complete review of the grammar of the option language in preparation for the department exit exam. Discussion and research of key issues associated with foreign language learning and the role of foreign languages in education and in commercial contexts. To be taken during the final semester of instruction. FR 498 can be substituted for FL 498. Prerequisite: 18 hours of selected option language at the 300 and 400 level. (Fall, Spring)

FR 499. (1-3) **Independent Study.** Open to majors on approval of the chair of the department. Provides for independent study and/or research under departmental supervision and evaluation. May be repeated for credit. (Fall, Spring)

GEOGRAPHY (GE)

GE 102. (3) **World Regional Geography.** The geographic method of inquiry is used to examine, describe, explain, and analyze the human and physical environments of the major regions of the world. (Fall, Spring, Summer)

GE 111. (4) **Principles of Physical Geography I.** Study of the physical features of the earth's environment pertaining to weather, climate,

biomes, and major water bodies with an emphasis on the interrelated processes that shape these features and the resulting distributions and global patterns that occur. Three class periods; one 2-hour laboratory period per week. Field trips may be a part of laboratory activities. Special fee: \$30.00. (Fall, Spring, Summer)

GE 112. (4) **Principles of Physical Geography II.** Study of the physical features of the earth's environment pertaining to landforms, physiographic regions, and soils with an emphasis on the interrelated processes that shape these features and the resulting distributions and global patterns that occur. Three class periods; one 2-hour laboratory period per week. Field trips may be a part of laboratory activities. Special fee: \$30.00. (Fall, Spring)

GE 224. (3) **Field Methods and Technology in Geography.** This course will prepare students for upper division classes by providing instruction in research methodology; field work design; data collection; data input through scanning and digital cameras; and data presentation and presentation methods. (Spring)

GE 225. (3) **Maps and Map Interpretation.** A study of the history of maps and mapping; types and uses; chief sources; reading and interpretation; care and handling. Special fee: \$30.00. (Fall, Spring)

GE 226. (3) **Maps and Image Analysis.** Reading, analysis and interpretation of maps, aerial photos, and satellite imagery, including types, sources and applications. Credit may be applied only to the Certificate in Geographic Information Systems program.

GE 260. (3) **Human Geography.** A conceptual approach to the study of humans, their distribution, economic systems, behavior patterns, value systems, and environmental perceptions, with emphasis given to the resulting patterns of cultural landscapes that characterize the earth. (Fall, Spring)

GE 300W. (3) **History and Philosophy of Geography.** An historical approach to the origin and development of geographical thought and methods defined by the laws, principles, and concepts that furnish rational explanations of the spatial character of the discipline. Prerequisite: nine hours of coursework in geography. (Fall)

GE 301. (3) **Geography of Europe.** Major European countries as types of the entire region. (Fall, even-numbered years)

GE 302. (3) **Geography of Russia and Associated States.** The character of and bases for the regional diversity of physical resources, population, economic, cultural, and political resources in Russia, the Ukraine, Belarus, Moldova, Georgia, and Armenia. (Offered on sufficient demand)

GE 303. (3) **Geography of the South.** The interrelationship between the southern environment and its people. (Spring, even-numbered years)

GE 304. (3) **Geography of the United States and Canada.** The geographic factors of North America; the regional characteristics and regional interdependence. The goals of this course are to increase and better integrate knowledge of geographic patterns in the U.S. and Canada, and understand the regional variations and spatial differentiation in the U.S. and Canada. (Spring, odd-numbered years)

GE 305. (3) **Geography of Latin America.** The geographic factors of Latin America; emphasis on certain regions and areas as a basis of comparison with other regions in Latin America and with North America. (Offered on sufficient demand)

GE 310. (3) **Principles of Planning.** Principles of urban and regional planning including the history of planning, planning theory, and the planning processes. (Fall, even-numbered years)

GE 321. (3) **Economic Geography.** A study of the basic concept of natural resources, their relationship to world economies with the emphasis on primary production. (Fall)

GE 322. (3) **Economic Geography.** A continuation of Geography 321 with the emphasis on industrialization and the localization of industrial activities. (Offered on sufficient demand)

GE 323. (3) **Use and Interpretation of Aerial Photographs.** Concepts and methods in the use of aerial photographs for mapping, land use analysis, planning and terrain and vegetation identification. Training in the use of basic photogrammetric equipment. Prerequisite: GE 225. (Fall and other times upon sufficient demand)

GE 324. (3) **Remote Sensing.** Principles and applications of remote sensing of the geographic environment. Instruction in interpretation of aerial photography, multispectral satellite imagery and hyperspectral imagery with emphasis on use of computers in numerical analysis and image processing. Prerequisite: GE 225. (Spring)

GE 325. (3) **Cartography.** An introduction to the elements of cartography, with emphasis on map construction, properties of map projections, and practice in the techniques of map-making including computer generated maps. Prerequisite: GE 225 or departmental approval. (Spring)

GE 326. (3) **Computer Mapping.** Design and presentation of computer generated maps with emphasis on data input, projections, grid systems, and final product output. Credit may be applied only to the Certificate in Geographic Information Systems program.

GE 330. (3) **Meteorology.** Components of weather systems, atmospheric temperature, pressure, and humidity; interpretation of weather maps; elements of forecasting. Also listed as ES 330 but creditable only in the field for which registered. Field trips and/or term projects may be required. Prerequisite: ES 121 and ES 121L, or GE 111 or departmental approval. (Fall)

GE 331. (3) **Climatology.** The physics of the air; the climatic classification of the earth's surface; and the relationship of climatological factors to man. Prerequisite: ES 121 and ES 121L, or GE 111 or departmental approval. (Spring, even-numbered years)

GE 350. (3) **Geography of Africa.** A study of the physical and cultural resources of Africa, with emphasis on the problems of developing nations. (Offered on sufficient demand)

GE 390. (3) **Urban Geography.** A study of the character and distribution of cities of the present day, their internal structure, and causes for changing differentiations of areas. (Spring, even-numbered years)

GE 402. (3) **Problems in Political Geography.** The place of geographic factors in conditioning the basic political structure of major nations. Also listed as PS 402 but creditable only in field for which registered. (Fall)

GE 403. (3) **Conservation of Natural Resources.** Principles underlying the wise use of our basic resources—soils, forests, water, minerals, wildlife—and the means for implementing our present knowledge of effective resource use. Field work required. (Spring)

GE 410. (3) **Integration of Geography and History.** The integration of the spatial concepts of geography with the chronological concepts of history. Also listed as HI 410 but creditable only in field for which registered. (Offered on sufficient demand)

GE 412. (3) **Geography of the Middle East.** An analysis of the distribution of resources and peoples of the Middle East, their relationships to each other and to the rest of the world. (Offered on sufficient demand)

GE 413. (3) **Geography of Asia.** An analysis of the distribution of resources and peoples of Asia, relationships to each other and to the rest of the world. (Offered on sufficient demand)

GE 424. (3) **Geographic Information Systems.** Concepts and technologies of geographic information systems including data encoding, data input, data management, manipulative operations, and output products. Experience in the use of ERDAS and PC ARC/INFO GIS and image processing systems. Prerequisite: GE 225. (Fall)

GE 435. (3) **Geomorphology.** A study of the origin and development of land forms and the processes involved; the configurations of the earth as a whole and the shape and disposition of its larger units. Two class periods; one 2-hour laboratory period per week and one required field trip per semester. Prerequisite: ES 121 and ES 121L, or ES 231 or GE 112. Special fee: \$30.00. (Offered on sufficient demand)

GE 460. (3) **Advanced Cultural Geography.** A conceptual approach to the study of human-environment systems within the frameworks of cultural geography including cultural landscape, ecological perspectives, environmental perception and behavior, and environmental stress. Prerequisite: GE 102 or departmental approval. (Offered on sufficient demand)

GE 472. (3) **Historical Geography of the United States.** The role of geographic conditions in the settlement and subsequent development of the United States. Also listed as HI 472 but creditable only in field for which registered. (Spring, odd-numbered years)

GE 484. (3) **Advanced Digital Techniques in Geography.** This course encompasses advanced reading and discussion of state-of-the-art projects and techniques in Geographic Information Systems, remote sensing, computer cartography, and image processing. Students will conduct a detailed database development project including database design, database population, data management, and the application of spatial modeling techniques. Four class periods per week. A field trip is required. Prerequisites: GE 324, 424 (GE 324 may be taken simultaneously if necessary). (Spring)

GE 494, 495, 496. (3, 3, 3) **Geography Internship.** Open to majors or minors in geography. Provides for special field experience by working in cooperation with a public or private agency for a minimum average of ten hours per week. In addition, weekly seminars will be held to evaluate the student's progress. The student will be required to maintain a daily journal regarding their work assignments, accomplishments and daily experiences. A written report must be provided to the departmental faculty at the end of the semester. Departmental approval required. (Fall, Spring, Summer)

GE 497. (1-4) **Special Topics.** A study of one or more selected topics in applied geography. Topics vary according to the needs of the student and the current professional environment.

GE 499. (3) **Independent Study-Practicum.** Open to senior majors on approval of the department head. Provides for independent study and research under departmental determination, supervision, and evaluation. (Fall, Spring, Summer)

GERMAN (GR)

GR 101. (3) **Introductory German.** Emphasizes listening, speaking, reading and writing skills. Basic concepts of grammar are introduced. Course is enhanced with audio, video, software and Internet components. No prior knowledge of the language is required. (Fall)

GR 102. (3) **Introductory German.** A continuation of German 101. Prerequisite: GR 101 or equivalent. (Spring)

GR 111. (1) **Language Laboratory.** Required of all students enrolled in Introductory German 101. Two 1-hour laboratory periods per week. Special fee: \$30.00. (Fall)

GR 112. (1) **Language Laboratory.** Required of all students enrolled in Introductory German 102. Two 1-hour laboratory periods per week. Special fee: \$30.00. (Spring)

GR 201. (3) **Intermediate German.** Review of grammar and pronunciation; introduction to German literature and scientific German. Prerequisite: two years of high school German or GR 102. Special fee: \$30.00. (Fall)

GR 202. (3) **Intermediate German.** A continuation of German 201. Prerequisite: GR 201 or equivalent. Special fee: \$30.00. (Spring)

GR 350. (3) **Conversation and Phonetics.** Oral practice in practical German conversational language. Prerequisite: GR 201 or departmental approval. (Spring, odd-numbered years)

GR 351. (3) **Conversation and Composition.** Practice in conversation as well as study of advanced grammar by practice in written composition. Prerequisite: GR 201 or departmental approval. (Fall, odd-numbered years)

GR 352. (3) **Civilization and Culture.** Survey of German civilization with emphasis on contemporary culture. Prerequisite: GR 201 or departmental approval. (Spring, even-numbered years)

GR 353. (3) **Commercial German.** Introduction to commercial language by means of oral and written practice. Prerequisite: GR 201 or departmental approval. (Fall, even-numbered years)

GR 400W.(3) **Pre-Romantic Literature.** Survey of German literature from its beginning up to Romanticism. Prerequisite: GR 202. (Fall, even-numbered years)

GR 401W.(3) **Nineteenth-Century Literature.** Survey of German literature during the nineteenth century. Prerequisite: GR 202. (Fall, odd-numbered years)

GR 402W.(3) **Contemporary Literature.** Survey of contemporary German literature. Prerequisite: GR 202. (Spring, even-numbered years)

GR 403W.(3) **Advanced Commercial German.** Study of practical commercial language used in business transactions and correspondence. Prerequisite: GR 353. (Spring, odd-numbered years)

GR 498. (1) **Senior Seminar.** Complete review of the grammar of the option language in preparation for the department exit exam. Discussion and research of key issues associated with foreign language learning and the role of foreign languages in education and in commercial contexts. To be taken during the final semester of instruction. GR 498 can be substituted for FL 498. Prerequisite: 18 hours of selected option language at the 300 and 400 level. (Fall, Spring)

GR 499. (1-3) **Independent Study.** Open to majors on approval of the chair of the department. Provides for independent study and/or research under departmental supervision and evaluation. May be repeated for credit. (Fall, Spring, Summer)

HEALTH EDUCATION (HED)

HED 155. (1) **Concepts of Wellness.** An introduction to the basic components of optimal health and fitness, with special emphasis on emotional, psychological, and sociological factors within the environment which influence total wellness. It is suggested that each student complete a blood analysis. Two class periods per week. Special fee: \$30.00. (Fall, Spring)

HED 175. (3) **Essentials for Healthy Living.** This course will provide the student with instruction and experiences in the basic concepts of optimal health and wellness. The course will explore the emotional, psychological, sociological, and physiological factors within the environment which influence an individual's health and well-being. This course will also feature laboratory experiences dealing with personalized individual assessments regarding wellness-related issues. (Offered on sufficient demand)

HED 213. (3) **Foundations of Health.** Personal and community health problems, including nutrition, mental health, safety, rest, relaxation, family life, prevention of disease, mood modifiers, medical and dental services, and degenerative diseases. (Fall, Spring)

HED 342. (3) **School Health and Physical Education for the Elementary School Teacher.** Information and skills related to the total school health program with an emphasis on health instruction. Additional components of the Comprehensive School Health Program shall be addressed such as school health services, healthful school environment, principles of physical and movement education, nutrition services, counseling and social support services, parent/community involvement, and health promotion for staff. Prerequisite: admission to Teacher Education. (Fall, Spring, Summer)

HED 343. (3) **School Health Education for the Secondary School Teacher.** Health information needed by the secondary classroom teacher for effective participation in the school health program, and for the protection and promotion of physical, mental, and social health of students and teachers. Prerequisites: BI 141 or BI 142, HED 213, PE 233 and admission to Teacher Education. (Offered on sufficient demand)

HED 406. (3) **Human Sexuality.** Instruction in and development of an understanding of the physical, mental, social, emotional, and psychological phases of human relations as they are affected by male and female relations; emphasis on understanding human sexuality as a healthy entity and as a source of creative energy in total life development. (Fall)

HED 408. (3) **Consumer Health.** A survey of the broad range of health-related products and services in the market place designed to give students experiences in critical analysis and evaluation of advertising claims, health care delivery systems, and health practitioners. (Spring)

HED 410. (3) **Health Promotion.** This course will examine the development of health promotion programs in community, corporate and school settings, including assessment of program development, selection of personnel, administrative procedures, evaluation procedures, marketing techniques and legal issues. Prerequisites: HED 155, HED 213. (Spring, even-numbered years)

HED 420. (3) **Health and Aging.** Interdisciplinary course which focuses on the physiological changes experienced by individuals as they age. Specific attention will be placed on the unique changes that occur among the elderly. Also listed as NU 420 but creditable only in field for which registered.

HED 422. (3) **Public Health.** A critical examination of the American public health care system at all levels of government. The course includes an examination of the role of voluntary and governmental health agencies, epidemiology, environmental health programs and the accessibility of public health services. Prerequisite: HED 213.

HED 424. (3) **Drugs in American Society.** An analysis of the medical, psychological, social, and legal dimensions of drug use and abuse in the United States; prevalence of drug abuse and roles played by school and community in dealing with the health problem; critical study of alcohol and tobacco. (Fall)

HED 430. (3) **Behavioral Modification Interventions.** Detailed analysis of an array of behavioral change techniques and their application to relevant health problems in prevention/intervention programs. Special emphasis will be placed on exercise adherence, dietary changes, weight control management, smoking cessation and stress management. Prerequisites: HED 155, HED 213. (Summer, even-numbered years)

HED 498. (6) **Internship/Clinical/Field Experiences.** Students will be assigned to an approved health/fitness agency, wellness program, or educational institution for a period of time arranged with the student by the course instructor and approved by the chair of the department. The student will report to the instructor periodically and will prepare a terminal written report for the instructor and the administrator of the participating agency.

Prerequisite: permission of the chair of the department. (Fall, Spring, Summer)

HED 499. **(1-3)Independent Study.** Designed to provide for independent study, research, or projects in an appropriate area of health science, subject to departmental approval, supervision, and evaluation. (Fall, Spring, Summer)

HUMAN ENVIRONMENTAL SCIENCES (HES)

HES 100. (3) **Introduction to Human Environmental Sciences.** Human environmental sciences as an area of study integrating concepts from family development, resource management, foods and nutrition, clothing, and design and housing. The history and philosophy of human environmental sciences are explored with implications for current issues. Career opportunities are identified. (Fall)

HES 241. (3) **Textile Product Analysis.** Units on basic construction techniques; wardrobe analysis, pattern selection, and garment construction; selection of ready-to-wear, from a buyer's viewpoint; pattern alteration and fitting. Two class periods; one 2-hour laboratory period per week. Special fee: \$30.00. (Fall)

HES 242. (3) **Food Science.** Relation of food composition and structure to the preparation and service of food. Two class periods; one 2-hour laboratory period per week. Special fee: \$30.00. (Fall, Spring)

HES 261. (3) **Introduction to Interior Design.** An overview of the profession of interior design; professional organizations, industry leaders, and the history and practice of interior design, introduction to color theory and to the principles and elements of design. Two class periods; one 2-hour studio per week. (Fall)

HES 264. (4) **Technical Drawing for Interior Documentation.** Introduction to the principles of technical drawing for the creation of interior construction documents. Introduction to computer aided design. One class period; three 2-hour studios or two 3-hour studios per week. (Fall)

HES 274. (4) **Space Planning for Interior Design.** Principles and application of space planning for residential and non-residential design. One class period; three 2-hour studios or two 3-hour studios per week. (Spring)

HES 320. (3) **Historic Costume.** The development of costume from Ancient Egypt to present. Emphasis will be on knowledge of fashion influences of past and present as a tool for making fashion predictions. (Fall, odd-numbered years)

HES 321. (3) **Merchandising.** Principles, practices, and organization of fashion merchandising; job descriptions and responsibilities at the management level; financial and control functions; process of fashion innovation, variables of fashion affecting production, and distribution of consumer goals. (Fall)

HES 322. (3) **Visual Presentation I.** Development of visual communication skills in the promotion of products for both the interiors and merchandising industries. Emphasis on visual display and selling techniques, special events, and other promotional activities. (Spring)

HES 325. (3) **Social and Cultural Aspects of Clothing.** An exploration of the sociological, economical, psychological, and cultural aspects of dress. (Fall, even-numbered years)

HES 340. (3) **Textile Fiber Theory.** A merchandiser oriented study of textiles emphasizing the basic knowledge of textile fibers including history, sources, characteristics and properties, and performance of natural and manmade fibers. (Spring, odd-numbered years)

HES 341W. (3) **Textiles and Materials.** Consumer oriented study of textiles emphasizing fibers, yarns, fabric, dyeing, printing, finishing, care, and serviceability for apparel and the interior environment. Knowledge of testing standards and legislation concerning apparel and interiors. (Spring)

HES 342. (3) **Nutrition.** Food requirements for different individuals, nutritive values of food, diet planning, and the relation of food to positive health. (Fall, Spring, Summer)

HES 343. (4) **Visual Presentation II/CADD for Interior Design.** Development of presentation techniques for interior design, plan and elevation studies, three-dimensional drawings, and renderings. Application of computer aided design software for interior design documentation creation. One class period; three 2-hour studios or two 3-hour studios per week. Prerequisite: HES 322. (Spring)

HES 353. (3) **Cultural Foods.** Planning of meals and food preparation demonstrations with emphasis on cultural foods, aesthetic values, and management of time and the food budget on various economic levels. Two class periods; one 2-hour laboratory period per week. Special fee: \$30.00. (Fall)

HES 354. (3) **Lighting and Mechanical Systems.** Analysis and application of lighting and mechanical systems to both residential and non-residential interior designs; codes, legislation, specification and product review. One class period; two 2-hour studios per week. (Fall, even-numbered years)

HES 355. (3) **Food Service Systems Management.** Effective use of management resources in food service systems; systems concepts, including theories, functions, and principles of management and tools for decision making; typical models of food service units; personnel; food quality; costs; common constraints. Prerequisite: HES 242 or departmental approval. (Spring, odd-numbered years)

HES 362. (3) **Child Development.** Human development from the prenatal to kindergarten stage. Consideration of nursery school materials and experiences to foster development. Supervised experiences including participation and home visits. Two class periods, two scheduled participation hours, and one free observation hour per week. Prerequisite: PY 201. (Fall, Spring)

HES 364. (4) **Interior Design I.** Planning and design of interior spaces for residential applications. Technical document creation, project management, design and specification of interior architectural materials and furnishings. One class period; three 2-hour or two 3-hour studios per week. Prerequisites: HES 274 and HES 343. (Fall)

HES 365. (4) **Interior Design II.** Planning and design of interior spaces for non-residential applications. Technical document creation, proj-

ect management, design and specification of interior architectural materials and furnishings. One class period; three 2-hour studios or two 3-hour studios per week. Prerequisites: HES 274 and HES 343. (Spring)

HES 366. (3) **History of Interiors and Furnishings.** Selected periods of interiors and furnishings with emphasis on the development of interior spaces, furniture, fabrics, and accessories from pre-Renaissance to date. (Spring, even-numbered years)

HES 375. (3) **Management and Economic Problems of the Consumer.** Increased consumer competence through management of family resources, including standards and labeling in buying, advertising, credit, savings, investment, insurance, and taxes; emphasis on governmental protection and consumer values. (Spring)

HES 400. (3) **Senior Seminar.** Human Environmental Sciences topics selected according to the interest and needs of the individual student, with study at advanced undergraduate level. Prerequisite: senior classification. (Offered on sufficient demand)

HES 422. (3) **Professional Dress and Image Development.** Analysis of the individual's figure type as the basis for personal professional image development and wardrobe planning. Emphasis will be placed on career preparation and job application. (Spring)

HES 427. (6) **Internship.** Approved off-campus experience with select businesses or studios under joint faculty and management supervision. Prerequisite: must be a junior or senior; approval of instructor. (Summer)

HES 433. (3) **Food Safety and Sanitation.** Analysis and application of the principles of food preservation, including drying, canning, freezing, pickling, and preserving with sugar; study of microbiological aspects, with emphasis on food safety. Two class periods; one 2-hour laboratory period per week. Special fee: \$30.00. (Offered on sufficient demand)

HES 441. (3) **Advanced Clothing.** Couture techniques and problem fabrics; construction of a designer garment; commercial skills such as mass production, and managing a sewing laboratory. Two class periods; one 2-hour laboratory period per week. Prerequisites: HES 241, 341. Special fee: \$30.00. (Offered on sufficient demand)

HES 442. (3) **Therapeutic Dietetics.** The role of nutrition and food throughout the life cycle in relationship to the maintenance of health, prevention of diseases, and correction of disorders due to nutritional imbalance; physiology and etiology of disease states and their nutritional management. Prerequisite: HES 342. (Spring, even-numbered years)

HES 443. (3) **Family Development.** The structure and function of the family, its interaction with other societal institutions, and the effect on all family members; student assessment of special concerns of all aspects of parenthood related to the care, development, and discipline of children. (Fall)

HES 455. (3) **Quantity Food Production.** Principles and methods of procuring, producing, and serving food in quantity, including organization, management, sanitation, safety, analysis, and design of jobs. Two class periods; one 2-hour laboratory period per week. Prerequisite: HES 355. Special fee: \$30.00. (Spring, even-numbered years)

HES 461. (3) **Interior Design Business Practices, Codes and Accessibility.** Review of business practices in the profession of interior design. Examination of life, safety, and building codes affecting the built environment. Review of universal design and barrier-free design principles for interiors. (Fall, odd-numbered years)

HES 462. (3) **Family and Consumer Sciences in the School and Community.** The relationship of family and consumer sciences to the school and community, including the underlying philosophies and objectives of teaching family and consumer sciences; development and organization of family and consumer sciences, with emphasis on the Alabama program; exploration and development of materials and methods for implementing the family and consumer sciences program. (Offered on sufficient demand)

HES 463. (3) **Home and Family Management.** Management of time, energy, money, and other resources to meet needs in individual and family living; application through supervised laboratory, personal, and community experiences including helping families meet the needs of the elderly. Two class periods; one 2-hour laboratory period per week. Prerequisites: HES 343, 353, 375. Special fee: \$30.00. (Offered on sufficient demand)

HES 465. (4) **Senior Interior Design Studio.** Research, analysis and execution of an advanced design problem defined by the student designer and directed by design faculty. One class period; three 2-hour studios or two 3-hour studios per week. Prerequisites: HES 364 and 365. (Fall, Spring)

HES 468. (3) **Practicum in Infant-Toddler Development.** Observation of infants and toddlers and design of a learning environment for this age group, including theories of infant development, description of appropriate learning activities, and development of parent education materials. Four class periods; two 1-hour laboratory periods per week at Kilby Nursery School. Prerequisite: HES 362. (Offered on sufficient demand)

HES 499. **(1-3)Independent Study-Practicum.** Independent study, projects, or field experiences under departmental determination, supervision, and evaluation. Open to majors on approval of department chair. (Offered on sufficient demand)

HISTORY (HI)

Survey of World Civilization (101, 102) or United States History (201, 202) is prerequisite to all advanced history courses. Majors and minors should enroll in History 301W during the second semester of the junior year.

HI 101. (3) **Survey of World Civilization to 1500.** A survey of major world civilizations from the earliest times to 1500. (Fall, Spring, Summer)

HI 101-H. (3) **Honors Survey of World Civilization to 1500.** An indepth survey of major world civilizations from the earliest times to 1500 in a seminar setting.

HI 102. (3) **Survey of World Civilization since 1500.** A survey of major world civilizations from 1500 to present. (Fall, Spring, Summer)

HI 102-H. (3) **Honors Survey of World Civilization since 1500.** An in-depth survey of major world civilizations since 1500 in a seminar setting.

HI 201. (3) **United States History to 1877.** The European background, colonial developments, establishment of the Nation, the Federalist and Jeffersonian periods, the westward movement, sectionalism, and the Civil War and Reconstruction. (Fall, Spring, Summer)

HI 202. (3) **United States History since 1877.** A continuation of the survey course, emphasizing industrial development, urbanization, labor and agrarian movements, the progressive era, imperialism, World War I, the 1920's, the New Deal, World War II, and the period after the second World War. (Fall, Spring, Summer)

HI 301W. (3) **History and Historical Research.** The nature, basic concepts, and methods of history as a profession, historical thinking, research and writing skills, and historiography. This course is intended for history majors and minors. It may not be taken for credit by students who have received credit for HI 303. (Spring)

HI 303. (3) **History and Social Sciences.** A study of history and the social science disciplines, emphasizing their relationship, basic concepts, methods and skills, their historical development as professions and careers. This course is intended for secondary education students majoring in history or social science disciplines. It may not be taken for credit by students who have received credit for HI 301W. (Fall)

HI 331. (3) **History of Western Philosophy I.** A survey of major philosophers and philosophical concepts from the ancient Greeks to the Renaissance. Also listed as PHL 331 but creditable only in the field for which registered. (Offered on sufficient demand)

HI 332. (3) **History of Western Philosophy II.** A survey of major philosophers and philosophical concepts from the Renaissance to the present. Also listed as PHL 332 but creditable only in the field for which registered. (Offered on sufficient demand)

HI 361. (3) **History of Alabama.** The social, economic, cultural, and political history of Alabama from the days of settlement to the present. (Fall, Spring)

HI 365. (3) **Black Americans in United States History.** A survey of the role of Black Americans in the United States from the beginning of the slave trade in Africa to the present. (Offered on sufficient demand)

HI 366. (3) **History of Women in the United States.** Survey of women's experiences in the United States from the colonial period to the present that examines social, political, economic, and legal developments that shaped women's roles and status in American society. Also listed as WS 366 but creditable only in field for which registered. (Spring, even-numbered years)

HI 370. (3) **Women In American Politics.** An overview of the role of women in American politics and the role of government in defining the status of women in society. Examines the political behavior of American women and public policies which specifically impact women. Also listed as PS 370 and WS 370 but creditable only in field for which registered. (Spring, odd-numbered years)

HI 410. (3) **Integration of Geography and History.** The integration of the spatial concepts of geography with the chronological concepts of history. Also listed as GE 410 but creditable only in field for which registered. (Offered on sufficient demand)

HI 418. (3) **Medieval Europe I, 476-1099.** A survey of Medieval History from the collapse of Rome to the 1st Crusade. Emphasis on social, cultural and religious movements, including such topics as the barbarian "invasions," Huns, King Arthur, the rise of the papacy, monasticism, St. Augustine, Islam, Vikings, Charlemagne, the Norman Conquest, and the early Crusades. (Fall, even-numbered years)

HI 419. (3) **Medieval Europe II, 1100-1500.** A survey of Medieval History from the 1st Crusade to the end of the Middle Ages. Emphasis on social, cultural and religious movements, including such topics as the Knights, Courtly Love, Becket, the first Universities, Castles, Cathedrals, Church and State, Heresies, Inquisition, Black Death, Peasant Revolts, Hundred Years War, Joan of Arc. (Spring, odd-numbered years)

HI 421. (3) **Renaissance and Reformation.** A balanced survey of Early Modern Europe, 1450-1648, with emphasis on the Italian and Northern Renaissances, the Protestant and Catholic Reformations, overseas expansion, rise of royal absolutism, and the scientific revolution. (Fall, odd-numbered years)

HI 422. (3) **European Imperialism Since 1500.** A study of the expansion of European dominance in the world after 1500 and the impact of the West on non-western civilizations. (Offered on sufficient demand)

HI 423. (3) **Early Modern Europe, 1648-1789.** The triumph and collapse of absolute monarchy, the evolution of the modern state system, the emergence of modern scientific thought and the Enlightenment, and the onset of an age of Age of Revolution in America, France, and much of the western world. (Fall, even-numbered years)

HI 424. (3) **European Popular Culture, 1500-1800.** This course explores the lives of common people during the early-modern period. It focuses on how ordinary people made sense of their world — what people thought, how they thought, and how they expressed such thought in behavior. Topics of study include family and community structure, poverty, criminality and violence, oral traditions, popular religion and beliefs, rituals, popular protest and rebellion, witchcraft and vampires, the development of manners, as well as the impact that the political, economic, social, and intellectual changes of the period had on popular culture. (Summer)

HI 425. (3) **French Revolution and the Napoleonic Period.** The origin and course of the French Revolution, the European reaction, the Napoleonic period in Europe and the Western Hemisphere, the rise of industrialism and Romanticism. (Spring, even-numbered years)

HI 427. (3) **Nineteenth Century European History (1815 to 1914).** The rise of modern Europe 1815 to 1914. The spread of liberalism, nationalism, and democratic forces; the industrial revolution and the resulting imperialistic and democratic rivalries among the great powers. (Fall, odd-numbered years)

HI 429. (3) **Twentieth Century European History (1914 to Present).** Recent and contemporary Europe 1914 to present. The two

world wars, decline of colonialism, the rise of new great powers, and conflicting ideologies. (Spring, even-numbered years)

HI 430. (3) **English Constitutional History.** A study of the development of the English Constitution from the Anglo-Saxon period to the present. Also listed as PS 430 but creditable only in field for which registered. (Fall, even-numbered years)

HI 431. (3) **History of England to 1688.** A survey of English History from prehistoric times to 1688. The course focuses on the evolution of social, economic, and political structures. (Fall, odd-numbered years)

HI 432. (3) **History of England Since 1688.** A continuation of History 431, emphasizing the growth of democratic process in England and the changes of the last century. (Spring, even-numbered years)

HI 433. (3) **History of the Balkans.** A survey of Balkan history from the middle ages to the present with emphasis on the place of the Balkans in the international systems of the Mediterranean and European regions, the rise of modern national movements, ethnic cultures and cooperation, and the life of the modern Balkan states. (Fall, even-numbered years)

HI 434. (3) **Russian History to 1801.** The history of Russia from its beginning to 1801 concentrating on Russia's place among the states and peoples surrounding it, the growth of the Russian state, and Russia's rise as a European power. (Fall, odd-numbered years)

HI 435. (3) **Russian History Since 1801.** The history of modern Russia with attention to Russia as a European power, problems of internal development, the revolutions of 1917, the Soviet system, and the end of the Soviet empire. (Spring, even-numbered years)

HI 436. (3) **Latin American Colonial History.** The high aboriginal cultures; European expansion with emphasis on Portuguese and Spanish colonial institutions; exploration, conquest, settlement, and cultural development; the wars for independence. (Offered on sufficient demand)

HI 437. (3) **Latin American History Since 1824.** The major countries of Latin America from 1824 to the present with emphasis on diplomatic, political, social, cultural, and economic developments and problems. (Fall)

HI 438. (3) **History of the Caribbean.** An in-depth study of the major Caribbean countries and of the Lesser Antillian colonies from the colonial period to the present, with special emphasis on the institution of slavery, cultural differentials, dictatorship, the role of the United States, nationalism, and communism. (Spring, odd-numbered years)

HI 444. (3) **The Middle East Past and Present.** A study of the history, cultures, and contemporary problems of the Middle East. (Offered on sufficient demand)

HI 446. (3) **History of Africa.** Traces the history of Africa from earliest times to the present, with emphasis on the period since the mid-nineteenth century. (Spring, odd-numbered years)

HI 447. (3) **History of the Far East.** The development of Far Eastern civilizations with emphasis on China and Japan; the impact of Western culture on the Far East; the position of the Far East in current world affairs. (Offered on sufficient demand)

HI 448. (3) **The History of World War II.** A study of the origins, course, and consequences of the Second World War. (Spring, even-numbered years)

HI 450. (3) **American Colonial History.** A study of the political, economic, social, and religious development of the American colonies, with particular attention paid to the British mainland colonies. (Offered on sufficient demand)

HI 451. (3) **American Revolution, 1763-1789.** A study of the origins, nature, and consequences of the American Revolution from the middle of the 18th century to the ratification of the federal Constitution. (Offered on sufficient demand)

HI 452. (3) **History of the Early Republic, 1789-1848.** A study of the beginnings of the American Republic, its formative years, and its development up to the beginnings of the nation's sectional crisis. (Offered on sufficient demand)

HI 453. (3) **Civil War and Reconstruction.** An intensive study of the development of sectionalism and of the period of the Civil War and Reconstruction. (Fall)

HI 454. (3) **United States History, 1877-1919.** A study of United States history from the end of Reconstruction through World War I. (Fall, odd-numbered years)

HI 455. (3) **United States History, 1920-1945.** A study of United States history from 1920 through World War II. (Spring, even-numbered years)

HI 456. (3) **Recent United States History.** The United States since 1945. A study of the United States history from the end of World War II to the present with major emphasis being placed on domestic and international trends and problems. (Spring)

HI 461. (3) **History of the South.** An institutional approach to the political, economic, and social developments of the region, looking toward an understanding of present conditions and problems of the South. (Fall, odd-numbered years)

HI 467. (3) **History of the West.** Relation of westward movement to the development of the United States; factors responsible for and composition of various segments of the general movements; problems of frontier and the influence of the frontier on American institutions. (Spring)

HI 472. (3) **Historical Geography of the United States.** The role of geographic conditions in the settlement and subsequent development of the United States. Also listed as GE 472 but creditable only in field for which registered. (Spring, odd-numbered years)

HI 473. (3) **United States Economic History.** The economic forces in agriculture, manufacturing, commerce, finance, transportation, and labor. The colonial age, the agricultural era, and the industrial state in America. Also listed as EC 473 but creditable only in field for which registered. (Fall)

HI 474. (3) **United States Military History.** A study of military in the history of the United States and the role of the military institutions and professionals in the society they serve. (Spring)

HI 475. (3) **Social and Cultural History of the United States.** Topics in social and cultural history of the United States. (Offered on sufficient demand)

HI 477. (3) **Constitutional History of the United States.** The principles of the American constitutional system. The leading decisions of the Supreme Court with reference to federal-state governmental relationship, citizenship, police power, eminent domain, and to the commerce, contract, and due process clauses of the Federal Constitution. Also listed as PS 477 but creditable only in field for which registered. (Spring, Summer)

HI 478. (3) **The Diplomatic History of the United States.** A study of the United States diplomatic relations with foreign nations since 1778 with special emphasis on American growth and development. Also listed as PS 478 but creditable only in field for which registered. (Offered on sufficient demand)

HI 479. (3) **History of Religion in the United States.** A nonsectarian study of the role of religion in American history. Also listed as RE 479 but creditable only in the field for which registered. (Offered on sufficient demand)

HI 481. (3) **Contemporary United States Foreign Policy.** A study of the United States foreign policy from World War II to the present. Also listed as PS 481 but creditable only in field for which registered. (Fall)

HI 482. (3) **Science & Technology I, to 1687.** Part one of a survey of the History of Science and Technology, from Neanderthals to Newton. Emphasis on social and cultural factors, including such topics as the Pyramid Building, Stonehenge, Greek Science and Technology, Medieval Science and Technology, the Scientific Revolution, the Trial of Galileo, and the Newtonian World. (Fall, odd-numbered years)

HI 483. (3) **Science and Technology II, 1687 to Present.** Part two of a survey of the History of Science and Technology from Newton to the Nuclear Age. Emphasis on social and cultural factors, including such topics as the Industrial Revolution, the Darwinian Revolution, Germ Theory, Technological Imperialism (Western weaponry), Transportation, Relativity, the A-Bomb, and the Human Genome Project. (Spring, even-numbered years)

HI 484. (3) **Philosophical Borderlands of Science and Religion.** An interdisciplinary course concerning the "Demarcation Question"—where do the borders of science end and religion begin? Both critical reasoning and historical analysis of those areas that have been perceived on the fringes of science, including Alchemy, Astrology, Atlantis, Galileo and the Church, Mesmerism, Spiritualism, Theosophy, ESP, Near-Death Experiences, UFO's and Alien Abductions, Eugenics, the New Age Movements, and the Tao of Physics. A strong philosophical component is included, particularly the application of logical fallacies. Also listed as PHL 484 and RE 484 but creditable only in field for which registered. (Offered on sufficient demand)

HI 490. (1-3) **Special Topics.** A study of one or more carefully selected historical topics. The length of time and amount of study will determine amount of credit earned. (Offered on sufficient demand)

HI 491. (3) **History Internship Practicum.** (Open only to senior majors in history and with departmental approval.) Professional work situations in which the knowledge and skills appropriate to the historical profession can be practiced under departmental supervision and evaluation. Departmental approval required. (Fall, Spring, Summer)

HI 499. (3) **Independent Study-Practicum.** Open to senior majors on approval of the department chair. Provides for independent study, research, or special field experience under departmental determination, supervision, and evaluation. (Fall, Spring, Summer)

INTERCULTURAL EXPERIENCE (IE)

From time to time the University conducts organized student tours of foreign countries for periods of from one to three weeks normally in interim sessions. Participating students may earn from one to three hours of general elective credit through individual independent study projects developed and evaluated by university faculty and designed to accord to the individual student's areas of special interest and preparation. Students who wish to earn credit in this manner register for the course and pay the established part-time credit hour rates in addition to basic tour costs.

IE 499. (1-3) **Intercultural Experience.** Independent study in connection with university conducted foreign travel. Hours of credit determined according to individual project and length of tour. Applicable for general elective credit only. (By arrangement)

INDUSTRIAL HYGIENE (IH)

IH 301. (3) **Occupational Safety and Health.** Principles of occupational health and safety covering standard techniques for the recognition, evaluation and control of workplace and environmental health hazards with emphasis on the role of regulatory agencies, the Occupational Safety and Health Act of 1970, and workplace safety and health regulations. (Fall, Spring)

IH 310. (3) **Industrial Ergonomics.** An introduction to industrial ergonomics studying the role of this discipline in improving safety conditions, quality, productivity, and work organization. Topics include business aspects of ergonomics, injuries and cumulative trauma disorders, operation analyses and sampling, anthropometry, work physiology and biomechanics, workstation design, manual materials handling, handtools, displays, illumination, and climate control. Topics will be illustrated with case studies. Field trips and a term project may be required. Prerequisites: BI 142, IH 301. (Spring)

IH 322. (3) **Industrial Hygiene Problems.** Case studies of known industrial hygiene hazards: disease symptoms, analyses and developments leading to hazard recognition; legal and scientific efforts necessary to correction. Typical case studies will include hazards associated with silica, radium, asbestos, coal, vinyl chloride, lead, inorganic acids, and others. Field trips and/or term projects may be required. Prerequisites: CH 112, 112L; IH 301. (Summer)

IH 333. (3) **Industrial Toxicology.** Review of human physiology and recognition of physiological effects of toxic agents; TLV and LD concepts; use of medical technology; modes of contact and entry of toxic agents and dosage, time, and concentration effects; recognition of toxic agents, occupational diseases, and epidemiology. Term projects may be required. Prerequisites: BI 142; MA 147. (Spring)

IH 411. (3) **Industrial Safety.** Review of the voluntary compliance outreach program (OSHA 501) for general industry. This program includes a review of the OSHA Act; recordkeeping and recording requirements; the use of the Code of Federal Regulations and the application of safety standards. General principles of occupational safety are discussed along with the regulatory issues. Term projects may be required. Prerequisites: CH 312, 312L; IH 301. (Fall)

IH 422. (4) **Airborne Hazards.** Process hazard analysis and control of airborne contaminants. Design and evaluation of general and local exhaust ventilation systems and noise reduction systems. Personal protection including respiratory and full body protective equipment. Three class periods; one 3-hour laboratory period per week. Field trips and/or term papers may be required. Prerequisites: IH 322, 411. Special fee: \$30.00. (Fall)

IH 444. (4) **Sampling Methods in Industrial Hygiene.** Air sampling methods for gases, vapors, aerosols and fibers including integrated, direct reading, bulk, surface and biological methods. Control procedures including instrument calibration, preparation of test atmospheres, and statistical methods for data analysis. Design of sampling strategies. Three class periods; one 3-hour laboratory period per week. Field trips may be required. Prerequisites: IH 333, 411. Special fee: \$30.00. (Spring)

IH 490. (3) **Special Topics in Occupational Health and Safety.** An in-depth study of a particular topic of current interest in the field of industrial hygiene. Topics will vary but will be listed in the Schedule of Classes when offered and on students' transcripts. A \$30 laboratory fee or field trips may be required according to topic. Prerequisite: departmental approval. (Fall)

IH 495. **(1-3)Senior Research/Internship.** Independent research or internship on individual projects under faculty supervision for selected industrial hygiene majors who have completed at least 84 credit hours with a minimum 3.0 overall scholastic average. Scheduled work and conferences require a minimum average of four hours per week per credit hour. Research or internship may be off campus at a preapproved site with credit depending on scope of project. May be repeated for a maximum of three credit hours. Departmental approval required. Special fee: \$30.00 for on-campus projects. (Fall, Spring, Summer)

JOURNALISM (JN)

JN 495. (3) **Journalism Internship.** Selected problems and practice emphasizing actual professional work situations in journalism through special study, projects, or field experience under departmental supervision and evaluation. Prerequisite: departmental approval required. (Fall, Spring, Summer)

JN 496. (3) **Journalism Practicum.** Special projects in journalism under departmental supervision. Journalism majors may not apply off-campus internships toward requirements of JN 496. Prerequisite: departmental approval required. (Fall, Spring, Summer)

JN 499. (3) **Independent Study.** Completion of a supervised individual project in journalism. Prerequisite: departmental approval. (Offered on sufficient demand)

MATHEMATICS (MA)

MA 099. (0) **Beginning Algebra.** A noncredit course in basic mathematics and introductory algebra required of all students with scores of 15 or below on the ACT Mathematics Subtest. Except as noted below, no other mathematics course may be taken until a grade of S is earned in MA 099. May also serve as a refresher or beginning course in mathematics for other students. Counts as three semester hours in determining hour load. Grading is S (Satisfactory) or U (Unsatisfactory). Students may be exempted only by approval of the Department of Mathematics and Computer Science. A student receiving a grade of U must repeat the course. After the second term in MA 099 the student, no matter what the grade, must proceed to the credit sequence beginning with MA 100. Students will not be allowed to withdraw from non-credit courses unless they are completely withdrawing from school. In the case of a complete withdrawal, a grade of WS, Withdrawal Satisfactory, or WU, Withdrawal Unsatisfactory, will be assigned. Grades of WS or WU have no effect on the student's scholastic standing. (Fall, Spring)

MA 100. (3) **Intermediate Algebra.** Principles and techniques of elementary algebra; products, factors, and quotients of polynomials; operations with rational expressions; ratio and proportion; rectangular coordinate system; systems of equations and inequalities; roots and radicals; second-degree equations; the quadratic formula. Prerequisite: minimum ACT mathematics score of 16 and one unit of high school algebra, or satisfactory completion of MA 099 (Fall, Spring, Summer)

MA 105. (3) **Mathematics for Liberal Arts.** (Formerly MA 115). This course emphasizes the breadth of application of contemporary mathematics to modern society. It is intended primarily for the liberal arts major. Topics covered include charts, graphs, compound interest, problem solving, sets, logic, probability, and statistics. Prerequisite: minimum ACT mathematics score of 16 and one unit of high school algebra, or satisfactory completion of MA 099. Not open to students with credit in MA 115 (prior to fall 1998). (Fall, Spring)

MA 110. (3) **Finite Mathematics.** This course is intended to give an overview of topics in finite mathematics together with their applications and is taken primarily by students who are not majoring in science, engineering, commerce, or mathematics (i.e., students who are not required to take calculus). The course includes sets, counting, permutations, combinations, basic probability (including Bayes' Theorem), an introduction to statistics (including work with Binomial Distributions and Normal Distributions), matrices and their applications to Markov chains and decision theory.

Additional topics may include symbolic logic, linear models, linear programming, the simplex method and applications. Prerequisite: minimum mathematics ACT score of 22 and credit in high school Algebra I, Algebra II, and Geometry; or grade of C or better in Intermediate Algebra; or Mathematics for Liberal Arts. (Fall, Spring, Summer)

MA 112. (3) **Pre-calculus Algebra.** This course emphasizes the algebra of functions – including polynomial, rational, exponential, and logarithmic functions. The course also covers systems of equations and inequalities, quadratic inequalities, and the binomial theorem. Additional topics may include matrices, Cramer's rule, and mathematical induction. Prerequisite: minimum mathematics ACT score of 22 and credit in high school Algebra I, Algebra II, and Geometry; or grade of C or better in Intermediate Algebra. Not open to students with credit in MA 101. (Fall, Spring, Summer)

MA 113. (3) **Pre-calculus Trigonometry.** This course is a continuation of Pre-Calculus Algebra. It includes the study of trigonometric and inverse trigonometric functions and includes extensive work with trigonometric identities and trigonometric equations. The course also covers vectors, complex numbers, DeMoivre's Theorem, and polar coordinates. Additional topics may include conic sections, sequences, and using matrices to solve linear systems. Prerequisite: MA 112; or minimum mathematics ACT score of 22 and credit in high school Algebra I, Algebra II, and Geometry; or grade of C or better in Intermediate Algebra. Not open to students with credit in MA 103. (Fall, Spring, Summer)

MA 115. (4) **Pre-calculus Algebra and Trigonometry.** This course is a one semester combination of Pre-calculus Algebra and Pre-calculus Trigonometry intended for superior students. The course covers the following topics: algebra of functions (including polynomial, rational, exponential, and logarithmic functions); systems of equations and inequalities; quadratic inequalities; the binomial theorem; the study of trigonometric and inverse trigonometric functions including extensive work with trigonometric identities and trigonometric equations; vectors; complex numbers; DeMoivre's Theorem; polar coordinates. Prerequisite: minimum mathematics ACT score of 22 and credit in high school Algebra I, Algebra II, and Geometry; or grade of C or better in Intermediate Algebra. Not open to students with credit in MA 151. (Fall, Spring)

MA 121. (3) **Calculus for Business and Life Sciences I.** Algebraic and some transcendental functions; limits; continuity; derivatives; maxima and minima; applications. Prerequisite: MA 112 or equivalent. Not open to students with credit in MA 221. (Fall)

MA 122. (3) **Calculus for Business and Life Sciences II.** Antiderivatives; the definite integral; applications of the definite integral; functions of two or more variables; partial derivatives; maxima and minima; applications. Prerequisite: MA 121. Not open to students with credit in MA 222. (Spring)

MA 125. (4) **Calculus I.** This is the first of three courses in the basic calculus sequence taken primarily by students in science, engineering and mathematics. Topics include the limit of a function; the derivative of alge-

braic, trigonometric, exponential, and logarithmic functions; and the definite integral and its basic applications to area problems. Applications of the derivatives are covered in detail, including approximations of error using differentials, maximum and minimum problems, and curve sketching using calculus. Prerequisite: Mathematics ACT score of 28 or higher; or MA 115; or both MA 112 and MA 113. Not open to students with credit in MA 251. (Fall, Spring)

MA 126. (4) **Calculus II.** This is the second of three courses in the basic calculus sequence. Topics include vectors in the plane and in space, lines and planes in space, applications of integration (such as volume, arc length, work and average value), techniques of integration, infinite series, polar coordinates, and parametric equations. Prerequisite: MA 125. Not open to students with credit in MA 252. (Fall, Spring)

MA 147. (3) **Elementary Statistics.** Descriptive statistics; probability; confidence intervals; tests of hypothesis; appropriate applications. Not open to students with credit in MA 190. Prerequisite: MA 100, 110, or 112 or equivalent. (Fall, Spring)

MA 227. (4) **Calculus III.** This is the third of three courses in the basic calculus sequence. Topics include vector functions, functions of two or more variables, partial derivatives (including applications), quadratic surfaces, multiple integration, and vector calculus including Green's Theorem, Curl and Divergence, surface integrals, and Stoke's Theorem). Prerequisite: MA 126. Not open to students with credit in MA 353. (Fall, Spring)

MA 237. (3) **Linear Algebra.** This course introduces the basic theory of linear equations and matrices, real vector spaces, bases and dimensions, linear transformations and matrices, determinants, eigenvalues and eigenvectors, inner product spaces, and the diagonalization of symmetric matrices. Additional topics may include quadratic forms and the use of matrix methods to solve systems of linear differential equations. Prerequisite: MA 126. (Offered on sufficient demand)

MA 238. (3) **Applied Differential Equations I.** An introduction to numerical methods, qualitative behavior of first-order differential equations, techniques for solving separable and linear equations analytically, and applications to various models (e.g., population, motion, chemical mixtures, etc.); techniques for solving higher-order linear differential equations with constant coefficients (general theory, undetermined coefficients, reduction of order, and the method of variation of parameters), with emphasis on interpreting the behavior of the solutions, and applications to physical models whose governing equations are of higher order; the Laplace transform as a tool for the solution of initial-value problems whose inhomogeneous terms are discontinuous. Prerequisite: MA 126. Not open to students with credit in MA 355. (Spring)

MA 245. (3) **Introduction to Discrete Mathematics.** Elementary propositional logic, proof techniques (including induction and contradiction), sets, functions, algorithms, combinatorial counting techniques, Boolean algebra, and graph theory. Prerequisite: MA 115 or both MA 112 and 113. (Fall)

MA 306. (3) **Mathematics for the Elementary School Teacher.** The number system; the number line; sentences and statements; logic; sets; relations and functions; modern trends in mathematics education. Does not satisfy requirements for mathematics major, minor, or general studies component. (Fall, Spring)

MA 345. (3) **Applied Statistics I.** A course in statistical methods with applications. Descriptive statistics, probability, statistical inference including one- and two-sample problems, Chi-Square applications, one-way analysis of variance, linear correlation and regression analysis, and nonparametric statistics. Prerequisite: MA 112 or equivalent. (Fall, Spring)

MA 356. (3) **Applied Differential Equations II.** A study of the techniques for solving ordinary differential equations by the use of infinite series; numerical methods of solutions; partial differential equations. Prerequisites: MA 227, 238. (Offered on sufficient demand)

MA 421. (3) **College Geometry.** Euclidean and non-Euclidean geometry including the topics of congruence, convexity, and plane and space separation. Prerequisite: MA 126. (Fall)

MA 425. (3) **Methods and Materials for Teaching Secondary Mathematics.** Practical aspects of teaching and learning mathematics at the secondary level. Topics covered include secondary mathematics curricula, preparation and presentation of lesson material, classroom management, and professional behaviors. Does not satisfy requirements for mathematics major, minor, or general studies component. Prerequisite: credit or concurrent enrollment in MA 421. (Fall)

MA 431. (3) **Advanced Linear Algebra I.** Systems of linear equations; matrices; determinants; vector spaces; linear transformations. Prerequisites: MA 126; CS 245 or MA 245. (Fall; Spring, odd-numbered years)

MA 432. (3) **Advanced Linear Algebra II.** Eigenvalues and eigenvectors; linear programming; Markov processes; numerical linear algebra; game theory and other applications. Prerequisite: MA 431. (Offered on sufficient demand)

MA 437. (3) **Modern Algebra I.** Sets, relations, and functions; elementary number theory; group theory including subgroups, cyclic groups, cosets, and LaGrange's theorem; introduction to rings. Prerequisites: MA 126 and MA 245. (Fall, odd-numbered years; Summer, even-numbered years)

MA 438. (3) **Modern Algebra II.** Theory of rings; integral domains; fields; group theory II; introduction to Galois theory. Prerequisite: MA 437. (Offered on sufficient demand)

MA 445W. (3) **Applied Statistics II.** A second course in statistical methods with applications. Experimental design, analysis of variance, general regression analysis, orthogonal contrasts, analysis of covariance, and nonparametric statistics. Introduction of statistical computing utilizing the Statistical Analysis System (SAS). Prerequisite: MA 345 or equivalent. (Spring, even-numbered years)

MA 447. (3) **Mathematical Statistics I.** Probability and combinatorial methods; discrete probability functions; probability density functions for

continuous variates; mathematical expectation; moment generating functions; appropriate applications. Prerequisite: MA 227. (Fall)

MA 448. (3) **Mathematical Statistics II.** Sampling distributions; confidence intervals; tests of hypothesis; regression analysis; analysis of variance; appropriate applications. Prerequisite: MA 447. (Spring, odd-numbered years)

MA 451. (3) **Introduction to Analysis.** Logic and point set theory; real number system; limits; continuity; derivatives. Prerequisites: MA 227 and MA 245. (Spring)

MA 452. (3) **Advanced Calculus.** Functions of several variables; mapping; partial derivatives; power series; uniform convergence; line and surface integrals; vector analysis. Prerequisite: MA 451. (Offered on sufficient demand)

MA 455. (3) **Complex Analysis.** Algebra and geometry of complex numbers; elementary functions and their mappings; analytic functions; integration in the complex plane; Cauchy's integral theorem; Taylor and Laurent expansions; calculus of residues. Prerequisite: MA 451. (Offered on sufficient demand)

MA 461. (3) **Numerical Analysis.** Error analysis for iterative methods; approximation theory; numerical differentiation and quadrature; initial value problems for ordinary differential equations; iterative techniques in matrix algebra. Also listed as CS 461 but creditable only in the field for which registered. Prerequisites: CS 155 or 210; MA 227. (Spring, even-numbered years)

MA 471W. (3) **Applied Mathematics.** Mathematical models and modeling techniques in the fields of engineering, ecology, economics, medicine, chemistry, traffic engineering, and simulation of experiments. Prerequisites: MA 227 and MA 245. (Fall)

MA 475W. (3) **Introduction to Operations Research.** The nature of operations research; modeling problems using operations research techniques; linear programming; the Simplex Method, theory and practice; special problems; network analysis; dynamic programming; theory of games. Prerequisites: MA 126 and one of CS 110, 155, or 210. Corequisite: MA 431. (Offered on sufficient demand)

MA 491. (3) **Senior Seminar.** Mathematics topics selected according to the interest and needs of the individual student, with study at advanced undergraduate level. Prerequisite: senior classification, approval of the chair of the department. (Offered on sufficient demand)

MANAGEMENT (MG)

MG 100. (3) **Introduction to Business.** A survey course to acquaint students with the major institutions and practices in the business world, to provide the elementary concepts of business, to act as an orientation course for selecting a major, and to provide information on business career opportunities. Not open to business majors beyond the freshman year. (Fall, Spring)

MG 330. (3) **Principles of Management.** A basic course in general management designed to acquaint the student with the theories and principles of organization as they are developing in modern society. (Fall, Spring)

MG 331. (3) **Organizational Behavior and Design.** An analysis of administrative practices as applied to the business and industrial environment, with emphasis on an integration of behavioral science concepts through the study of individual and group interactions, particularly those dealing with motivation, conflict, and communication in organizations. Prerequisite: MG 330. (Fall, Spring)

MG 332. (3) **Supervisory Techniques and Practices.** Designed to develop skills needed to manage front line employees in manufacturing, retailing, health care and service organizations. Topics include supervisor's role in selection, orientation, training, coaching, modifying behavior, leading, conducting performance appraisals and performance counseling sessions. The course will also focus on the supervisor as team leader with responsibility for team building and for developing follower skills among the work team. Techniques for improving communication skills will be integrated throughout the course. Prerequisites: MG 330, 331.

MG 362. (3) **Human Resources Management.** Evaluation of criteria for personnel programs with analysis of acquisition, development, motivation, and compensation of human resources. Prerequisite: MG 330. (Fall, Spring)

MG 371. (3) **Labor Issues and Legislation.** A study of problems relating to labor, including the historical development of unionism, collective bargaining, labor disputes, the labor force, the labor market, labor legislation, and wage determination. Prerequisite: EC 252. (Fall, Spring)

MG 391. (3) **Introduction to Entrepreneurship.** This course focuses on the introductory topics of entrepreneurship and the development of new and emerging ventures. Specific areas covered include: identifying business opportunities, conducting feasibility studies, developing the business plan, evaluating alternative ways to finance new ventures, and identifying the appropriate form of legal organization. Also includes an examination of the characteristics of successful entrepreneurs and methods for development of entrepreneurial creativity. Prerequisite: junior standing.

MG 393. (3) **Community Service Practicum.** This course provides junior and senior students with an opportunity to gain hands-on business experience by helping non-profit organizations with business related problems. Projects may include developing business or marketing plans, planning and implementation of information systems, feasibility studies, planning and supervision of fund raising drives, etc. Also listed as MK 393 but creditable only in field for which registered. Prerequisite: approval of department chair. (Offered on sufficient demand)

MG 404. (1) **Transition to Business World.** Open to senior majors, this weekly seminar will focus upon those issues faced by graduates as they enter and progress in their business careers. The topics will include career decisions, keys to personal success, ethical dilemmas, balancing work and family responsibilities, continued personal growth, and adapting to and being effective in a corporate environment. Also listed as AC 404, CIS 404, and MK 404 but creditable only in field for which registered.

MG 420. (3) **Operations Management.** A survey of production-operations functions; basic procedures and techniques in the design and analysis of operating systems. Prerequisites: MG 330; QM 292. (Fall)

MG 440. (4) **Organizational Communication.** An analysis of communication within complex organizations. Areas covered include communication auditing, interviews, decision-making, communication networks, and problem solving. Three class periods; one 2-hour laboratory period per week. Also listed as COM 440 but creditable only in field for which registered. (Spring, odd-numbered years)

MG 462. (3) **Compensation Management.** Systematic examination of administration of wage and salary as a tool of management; use of job descriptions, job analysis, and job evaluation methods, instruction in techniques of rationalizing wage structures; analyses are made of some outstanding considerations that must be taken into account in installing and administering wage programs. Prerequisite: MG 362.

MG 471. (3) **Employment Relations.** A course designed to analyze, synthesize, and evaluate the major federal and state laws that impinge on the modern work environment. Students will draw upon new insights in the human resource management discipline to abstract, summarize, and evaluate the impact of the ever growing field of legislation and laws regulating the employee/employer relationship. Case work will provide students with a qualitative approach to the topic.

MG 480. (3) **Management Internship.** A work related experience in a private, public, or governmental organization enhancing the applications of management theories and concepts. Must be a junior or senior. Prerequisite: approval of department chair.

MG 482W. (3) **Business Communication.** A study of communication theory as related to written, oral, and nonverbal communication. Creative, logical, and critical thinking is applied to the planning and preparation of business letters and memorandums, oral and written reports, and employment letters and resumes. Ethical, legal, and intercultural implications are discussed throughout the course. Prerequisite: EN 112 or 121. (Fall, Spring, Summer)

MG 490. (3) **Seminar in Small Business Operations.** Application of classroom learning to problems of small business in the community. Student is given the opportunity to apply business concepts and develop analytical skills. Upon completion of selected readings relevant to small or minority enterprises, students are assigned a project on the basis of interest, ability, and experience. Students work in teams under the supervision of a participating professor within the College of Business. Also listed as AC 490, CIS 490, and MK 490 but creditable only in field for which registered. Prerequisite: approval of the Dean of the College of Business. (Fall, Spring)

MG 491. (3) **International Business.** An advanced survey of management practices and styles in developed and developing nations along with a study of the growing opportunities and potential risks in the marketing of goods and services across international boundaries. Also listed as MK 491 but creditable only in field for which registered. Prerequisites: MG 330; MK 360.

MG 493. (3) **International Entrepreneurship and New Venture Development.** This course focuses on issues related to managing entrepreneurial ventures in the global marketplace. The course will focus on

managing the individual business enterprise as well as strategic business units of conglomerate corporations seeking to become involved in international ventures. Management, marketing, finance and cultural topics will be explored in depth.

MG 494. (3) **Small Business Management.** A study of those aspects of management uniquely important to small firms, and of the economic and social environment in which they function. Also listed as MK 494 but creditable only in field for which registered. Prerequisites: MG 330; MK 360.

MG 495. (3) **Senior Project.** This course is designed to provide senior majors with an opportunity to develop a professional portfolio. Students will benefit from exposure to practicing professionals, from the hands-on experience required to complete the project, and from the networking opportunities associated with completion and presentation of the project. Admission to this course is competitive. Application should be made one semester prior to planned enrollment. Also listed as MK 495 but creditable only in field for which registered. Prerequisite: senior standing and approval of department chair and supervising faculty member. (Offered on sufficient demand)

MG 496. (3) **Honors Symposium in Leadership.** A seminar and directed experience course for selected business honor students. Readings, lectures and experiences will be developed to explore all facets of personal and organizational leadership. Potential topics to be explored include transactional leadership, transformational leadership, personal leadership, "followership," business etiquette for leaders, and civic and community leadership. Enrollment is by invitation only. Students are selected each fall and will attend one program per month throughout the academic year, enrolling for credit during the spring semester only.

MG 498. (3) **Business Policy.** Emphasis is on approach and methodology for strategic planning and policy development. Policy formulation and administration for the total organization involves integration of accounting, economics, finance, personnel and production management, and marketing discipline competencies in decision processes. Open only to senior business majors. Prerequisites: FI 393; MG 330; MK 360. (Fall, Spring)

MG 499. (3) **Independent Study-Practicum.** Open to senior majors on approval of the department chair. Provides for study, research or special field experience on departmental determination, supervision, and evaluation.

MARKETING (MK)

MK 360. (3) **Marketing.** A general survey of the functions, processes, institutions, and costs in the flow of goods and services from producers to users. (Fall, Spring)

MK 363. (3) **Promotion and Advertising.** A study of the role of promotion as a part of marketing communication. Provides a behavioral foundation for the study of advertising, reseller stimulation, personal selling, and other communication tools as a part of an overall promotion mix. Prerequisite: MK 360. (Spring)

MK 393. (3) **Community Service Practicum.** This course provides junior and senior students with an opportunity to gain hands-on business experience by helping non-profit organizations with business related problems. Projects may include developing business or marketing plans, planning and implementation of information systems, feasibility studies, planning and supervision of fund raising drives, etc. Also listed as MG 393 but creditable only in field for which registered. Prerequisite: approval of department chair. (Offered on sufficient demand)

MK 395. (3) **Entrepreneurial Marketing.** This course focuses on the marketing function of entrepreneurship and intrapreneurship in new and existing ventures. Specific emphasis is placed on establishing a strategic marketing plan within the framework of limited funds and market experience as typically experienced in new ventures and small business organizations. Includes development of strategic planning in the areas of the price, customer service, business image development, location analysis, distribution, product selection and quality and promotional analysis. Prerequisite: MK 360.

MK 404. (1) **Transition to Business World.** Open to senior majors, this weekly seminar will focus upon those issues faced by graduates as they enter and progress in their business careers. The topics will include career decisions, keys to personal success, ethical dilemmas, balancing work and family responsibilities, continued personal growth, and adapting to and being effective in a corporate environment. Also listed as AC 404, CIS 404, and MG 404 but creditable only in field for which registered.

MK 461. (3) **Sales and Sales Management.** Covers the field of selling as it relates to marketing. Involves a detailed study and application of the basic steps in selling: prospecting, preapproach, approach, presentation, handling objections, close, and follow-up. Prerequisite: MK 360. (Fall)

MK 476. (3) **Consumer and Market Behavior.** A study of the buying habits and preferences of consumers; models for explaining and predicting consumer and marketing behavior; consumer movements and attitudes with implications for marketing management policies and the business economy. Prerequisite: MK 360. (Fall, Spring)

MK 479. (3) **Marketing Research and Survey Technique.** Methods and techniques employed in business and economic research. Emphasizes sources of information, analysis, interpretation and presentation of data and reporting. Open to senior business majors only. Prerequisites: MK 360; QM 292. (Fall, Spring)

MK 480. (3) **Marketing Internship.** A work related experience in a private, public, or governmental organization enhancing the applications of marketing theories and concepts. Must be a junior or senior. Prerequisite: approval of department chair.

MK 487. (3) **Electronic Marketing.** This course is designed to provide an overview of electronic commerce with an emphasis on e-retailing, consumer behavior online, Internet advertising, and online market research. Prerequisite: MK 360.

MK 490. (3) **Seminar in Small Business Operations.** Application of classroom learning to problems of small business in the community. Student

is given the opportunity to apply business concepts and develop analytical skills. Upon completion of selected readings relevant to small or minority enterprises, students are assigned a project on the basis of interest, ability, and experience. Students work in teams under the supervision of a participating professor within the College of Business. Also listed as AC 490, CIS 490, and MG 490 but creditable only in field for which registered. Prerequisite: approval of the Dean of the College of Business. (Fall, Spring)

MK 491. (3) **International Business.** An advanced survey of management practices and styles in developed and developing nations along with a study of the growing opportunities and potential risks in the marketing of goods and services across international boundaries. Also listed as MG 491 but creditable only in field for which registered. Prerequisites: MG 330; MK 360.

MK 492. (3) **Retailing.** The structure, policies and practices followed in the operation of chain stores, franchises, cooperatives, and independent retailers. Course covers store location, layout, buying, selling, pricing, merchandising, promotional strategies, and retail trends. Prerequisite: MK 360. (Fall, Spring, Summer)

MK 494. (3) **Small Business Management.** A study of those aspects of management uniquely important to small firms, and of the economic and social environment in which they function. Also listed as MG 494 but creditable only in field for which registered. Prerequisites: MG 330; MK 360.

MK 495. (3) **Senior Project.** This course is designed to provide senior majors with an opportunity to develop a professional portfolio. Students will benefit from exposure to practicing professionals, from the hands-on experience required to complete the projects, and from the networking opportunities associated with completion and presentation of the project. Admission to this course is competitive. Application should be made one semester prior to planned enrollment. Also listed as MG 495 but creditable only in field for which registered. Prerequisite: senior standing and approval of department chair and supervising faculty member. (Offered on sufficient demand)

MK 498. (3) **Marketing Management.** An integrated course that provides advanced students an opportunity to apply marketing strategies to the solution of marketing problems. Uses simulations, cases, and outside projects. Open to senior business majors only. Prerequisites: MK 360, 362, 479. (Fall, Spring)

MK 499. (3) **Independent Study-Practicum.** Open to senior majors on approval of the department chair. Provides for study, research, or special field experience on departmental determination, supervision, and evaluation.

MILITARY SCIENCE (MS)

MS 111. (1) **Fundamental Concepts of Leadership.** Organization of the Army, National Guard, and Army Reserve; basic marksmanship (22 caliber); traits and principles of leadership; first aid. One class period; one 1-hour laboratory period per week. (Fall)

MS 112. (1) **Basic Leadership.** Basic map reading and terrain recognition; leadership development and effective communication skills; benefits of an Army career. One class period; one 1-hour laboratory period per week. (Spring)

MS 211. (1) **Advanced Leadership.** Map reading; squad and platoon organization; selected weapons; customs and traditions of the service. One class period; one 1-hour laboratory period per week. (Fall)

MS 212. (1) **Tactics and Officership.** Military communications system; threat and equipment recognition; leadership development; branches of the Army. One class period; one 1-hour laboratory period per week. (Spring)

MS 311. (3) **Small Organization Leadership.** Leadership development; military teaching principles; map reading; field training exercise. Two class periods; two laboratory hours per week. (Fall)

MS 312. (3) **Small Organization Operations.** The leader's role in directing and coordinating the efforts of individuals and small units; small unit tactics; military equipment; communications; physical training; and field training exercises. Two class periods; two laboratory hours per week. (Spring)

MS 313. (3) **Advanced Leadership Internship.** Leader Development and Assessment Course. Leadership practical exercises; oral and written communication; planning and organizing; administration of small units; delegation of authority; and problem solving. Prerequisite: department chair approval required. (Fall, Summer)

MS 411. (3) **Leadership, Management, and Ethics.** The theory and dynamics of the military team, with emphasis on the planning and coordination between elements of the team; military correspondence; logistics; counseling; training management; ethics and professionalism; leadership development. Two class periods; three laboratory hours per week. (Fall)

MS 412. (3) **Transition to Lieutenant.** A seminar in management, including analysis of problems in unit administration; military justice; the obligations and responsibilities of an officer on active duty; ethics and professionalism; leadership development. Two class periods; three laboratory hours per week. (Spring)

MUSIC (MU) *MUSICAL

ACTIVITIES

Vocal Jazz Ensemble. Study and performance of vocal jazz music. Investigates the popular idiom of jazz and its evolution into the vocal setting with experiences in ensemble and solo singing (improvisation and scat singing). Students are selected by audition from Collegiate Singers or by departmental approval. Two rehearsal periods per week. Each number may be repeated once with the exception of 404 which may be repeated more than once with departmental approval. (Fall, Spring)

MU 104. (1) Vocal Jazz Ensemble.

MU 204. (1) Vocal Jazz Ensemble.

MU 304. (1) Vocal Jazz Ensemble.

MU 404. (1) Vocal Jazz Ensemble.

* Members of musical activities and students who are enrolled in applied music will occasionally be required to go on field trips to represent the University of North Alabama and the UNA Department of Music.

University Band. The study and performance of literature for the band. Five class periods of rehearsal per week. Each number may be repeated only once with the exception of 405 which may be repeated more than once with departmental approval. Prerequisite: assignment by departmental approval. (Fall, Spring)

- MU 105. (1) University Band.
- MU 205. (1) University Band.
- MU 305. (1) University Band.
- MU 405. (1) University Band.

Jazz Band. The study and performance of popular music. Students are selected for the Jazz Band by audition and have two rehearsals per week. Each number may be repeated only once with the exception of 406 which may be repeated more than once with departmental approval. Prerequisite: assignment by departmental approval. (Fall, Spring)

- MU 106. (1) Jazz Band.
- MU 206. (1) Jazz Band.
- MU 306. (1) Jazz Band.
- MU 406. (1) Jazz Band.

University Chorale. The study and performance of choral music. Three rehearsal periods per week. Each number may be repeated once with the exception of 407 which may be repeated more than once with departmental approval. (Fall, Spring)

- MU 107. (1) University Chorale
- MU 207. (1) University Chorale
- MU 307. (1) University Chorale
- MU 407. (1) University Chorale

Opera/Music Theater Workshop. The study and performance of opera and musical theater literature. One 2-hour rehearsal per week. Each number may be repeated only once with the exception of 408 which may be repeated more than once with departmental approval. Admission by audition only. (Offered on sufficient demand)

- MU 108. (1) Opera/Music Theater Workshop.
- MU 208. (1) Opera/Music Theater Workshop.
- MU 308. (1) Opera/Music Theater Workshop.
- MU 408. (1) Opera/Music Theater Workshop.

Shoals Symphony at UNA. The study and performance of orchestral music. Two class periods of rehearsal per week. Each number may be repeated only once with the exception of 409 which may be repeated more than once with departmental approval. (Fall, Spring)

- MU 109. (1) Shoals Symphony at UNA.
- MU 209. (1) Shoals Symphony at UNA.
- MU 309. (1) Shoals Symphony at UNA.
- MU 409. (1) Shoals Symphony at UNA.

Collegiate Singers. Specialized study and performance of choral music. Students are selected for the Collegiate Singers by audition and have four rehearsal periods per week. Each number may be repeated only once with the exception of 410 which may be repeated more than once with departmental approval. Prerequisite: assignment by departmental approval. (Fall, Spring)

- MU 110. (1) Collegiate Singers.
- MU 210. (1) Collegiate Singers.
- MU 310. (1) Collegiate Singers.
- MU 410. (1) Collegiate Singers.

Ensemble. The study and performance of chamber music on various instruments. Each class has one rehearsal period per week for one credit hour. Each course in each area represents a sequence of progression in level of competency. Admission by departmental approval. Prerequisite: assignment by departmental approval. (Fall, Spring)

- MU 127, 128, 227, 228, 327, 328, 427, 428. Choral Ensemble. MU
- 137, 138, 237, 238, 337, 338, 437, 438. Keyboard Ensemble. MU
- 147, 148, 247, 248, 347, 348, 447, 448. Brass Ensemble.
- MU 157, 158, 257, 258, 357, 358, 457, 458. Percussion Ensemble.
- MU 167, 168, 267, 268, 367, 368, 467, 468. String Ensemble. MU
- 177, 178, 277, 278, 377, 378, 477, 478. Woodwind Ensemble. MU
- 187, 188, 287, 288, 387, 388, 487, 488. Guitar Ensemble.

CLASS AND APPLIED MUSIC

Applied Music. *Individual instruction in voice and instruments by arrangement. One credit hour for each half-hour lesson per week, with five hours preparation required for each lesson; may be taken for one or two credit hours; and may be repeated in each area with departmental approval. Prerequisite: assignment by departmental approval. Special fee per credit hour: \$60.00. In some instances may be taught in groups of four at half fee. (Fall, Spring, Summer)

- MU 111, 211, 311, 411. Voice.
- MU 112, 212, 312, 412. Piano.
- MU 113, 213, 313, 413. Organ.
- MU 114, 214, 314, 414. Brass.
- MU 115, 215, 315, 415. Percussion.
- MU 116, 216, 316, 416. Strings.
- MU 117, 217, 317, 417. Woodwinds.
- MU 118, 218, 318, 418. Guitar.
- MU 419. Senior Recital. (1–2) No fee.

Class Music. Basic instruction in voice and instruments in a class situation. Each class meets two periods per week for one credit hour. Prerequisite: assignment by departmental approval. (Fall, Spring, Summer)

- MU 121, 122. Class Voice.
- MU 131, 132, 133. Class Piano.
- MU 134, 135. Class Accompanying.
- MU 141, 142. Class Brass.
- MU 151, 152. Class Percussion.
- MU 161, 162. Class Strings.
- MU 171, 172. Class Woodwinds.
- MU 181, 182. Class Guitar.

Note: Please see Entertainment Industry Management for Commercial Music and Entertainment Industry courses.

* Members of musical activities and students who are enrolled in applied music will occasionally be required to go on field trips to represent the University of North Alabama and the UNA Department of Music.

MU 100. (3) **Fundamentals of Music.** Basic fundamentals of music, including basic terms, notation, key and time signatures, and rhythm. (Fall, Spring, Summer)

MU 201. (3) **Music Theory.** The melodic, harmonic, rhythmic, and structural elements of music; written harmonization and dictation; and musical analysis. Must be taken concurrently with MU 220 or may be taken separately if previous credit for Sight Singing and Ear Training has been awarded. Prerequisite: MU 100 or departmental approval. (Fall)

MU 202. (3) **Music Theory.** A continuation of Music 201. Must be taken concurrently with MU 221 or may be taken separately if previous credit for Sight Singing and Ear Training has been awarded. Prerequisite: MU 201. (Spring)

MU 220. (1) **Sight Singing and Ear Training.** The development of vocal skills through music reading (singing); and aural skills through melodic, rhythmic and harmonic dictation and keyboard harmonization. Two class periods per week. Must be taken concurrently with MU 201 or may be taken separately if previous credit for theory has been awarded. (Fall)

MU 221. (1) **Sight Singing and Ear Training.** A continuation of MU 220. Two class periods per week. Prerequisite: must be taken concurrently with MU 202 or may be taken separately if previous credit for theory has been awarded. (Spring)

MU 222. (3) **Music Appreciation I.** The materials of music terminologies, styles, literature, and forms covered chronologically from Baroque to twentieth century. Lecture and listening designed to enhance a better understanding and enjoyment of music. (Fall, Spring, Summer)

MU 244. (3) **Survey of Music Literature.** A general survey of the forms and styles of music. (Spring)

MU 301. (3) **Advanced Music Theory.** Complex musical forms of music. Nineteenth and twentieth century treatment of melodic, harmonic, rhythmic, and structural materials, with emphasis on chromatic harmony. Prerequisites: MU 201, 202. (Fall)

MU 302. (3) **Advanced Music Theory.** A continuation of Music 301. Prerequisite: MU 301. (Spring)

MU 345W.(3) **History of Music I.** The development of musical thought, tendencies, styles, and influences; the relationships and coordinations among the fine arts. The background and setting of social and political history. Prerequisite: MU 244. (Fall)

MU 346. (3) **History of Music II.** A continuation of Music 345 to include a history of western music from 1750 to the present. Prerequisite: MU 345. (Spring)

MU 361. (2) **Orchestration and Arranging.** The study of the skills of instrumental scoring and arranging for various small and large groups. Transpositions, tone colors, blends, and techniques of instrumentation and arranging are learned, as well as computer notation programs. Prerequisite: MU 302. (Fall)

MU 363. (3) **Form and Analysis.** Music of various periods is analyzed formally, harmonically, and contrapuntally. Prerequisite: MU 302. (Fall)

MU 381. (3) **Music in the Elementary School.** Basic music experiences in the elementary and middle schools, including listening, singing, playing, moving, creating, and reading activities, and Kodaly and Orff techniques. (Spring)

MU 383. (2) **Instrumental Conducting.** Emphasis on the problems of obtaining nuance, rhythmic precision, and subtle accentuation through one's baton technique as related to instrumental ensembles. Prerequisite: MU 202. (Spring)

MU 384. (2) **Choral Conducting.** Emphasis on the problems of obtaining nuance, rhythmic precision, and subtle accentuation through one's conducting technique, as related to choral ensembles. Students must attend one rehearsal each week of the University Chorale. Prerequisite: MU 202. (Fall)

MU 390. (5) **Sacred Music Administration/Arranging/Literature.** The administration of sacred music, including its basic organization, philosophies, objectives and materials. The study of methods and materials used in arranging choral music. A study of the significant sacred choral music by stylistic periods. Building a broad knowledge base of choral repertory and developing understanding of performance practice is emphasized. Prerequisite: departmental approval. (Spring even-numbered years)

MU 392. (2) **Instrumental Literature and Pedagogy.** A study of instrumental literature from the pre-Baroque to the twentieth century including analysis, performance techniques, teaching techniques, materials, practices and theories for the student's major instrument. Prerequisite: assignment by departmental approval. (Offered on sufficient demand)

MU 393. (2) **Instrumental Techniques.** Techniques of developing successful marching and concert bands. (Fall)

MU 394. (2) **Choral Techniques.** Organization and administration of choral activities in middle and secondary schools. (Spring)

MU 395. (2) **Vocal Diction I.** The study of phonetic sounds for singing in Italian and German with no attempt to develop grammar. Prerequisite: MU 111 or departmental approval. (Fall, odd-numbered years)

MU 396. (2) **Vocal Diction II.** The study of phonetic sounds for singing in French and English with no attempt to develop grammar. Prerequisite: Vocal Diction I. (Spring, even-numbered years)

MU 397. (2) **Vocal Science.** Study of respiration, phonation, articulation, registration, and resonance; concepts and techniques of singing. Includes listening to recordings, viewing videotapes, and studio observation. Prerequisite: MU 111 or departmental approval. (Fall, even-numbered years)

MU 398. (2) **Vocal Literature.** Study of the major American, English, French, and German composers of solo vocal literature from the Baroque to the present, their style characteristics, and overall contributions to the body of vocal literature known as art song. Includes listening to recordings and general survey of literature for all voice classifications. Prerequisite: departmental approval. (Spring, odd numbered years)

MU 403. (2) **Music of the Twentieth Century.** A survey of contemporary composers, their products, and their stylistic tendencies. (Offered on sufficient demand)

MU 442. (3) **Organ Literature and Materials.** An examination of an extensive amount of music for organ, and of the composers and their backgrounds. Two class periods per week. Prerequisite: MU 202. (Offered on sufficient demand)

MU 443. (3) **Organ Pedagogy.** Principles, philosophy, psychology, and professional ethics of the private organ teacher; materials, standards, and studio recitals, parental school and community relationships. Prerequisite: MU 202. (Offered on sufficient demand)

MU 444. (3) **Music in the Secondary School.** A practical comprehensive course designed to help the prospective music teacher in the secondary school; includes curriculum, evaluation, and teaching methods. (Fall)

MU 445. (3) **Piano Literature and Materials.** An examination of an extensive amount of music for piano, and of the composers and their backgrounds. Two class periods per week. Prerequisite: MU 202. (Offered on sufficient demand)

MU 446. (3) **Piano Pedagogy.** Principles, philosophy, psychology, and professional ethics of the private piano teacher; materials, musical standards, and studio recitals, parental, school, and community relationships. Prerequisite: MU 202. (Offered on sufficient demand)

MU 490. (1-3) **Special Topics.** Topics selected with the approval of the department head. May be repeated but not to exceed a total of three semester hours. (Offered on sufficient demand)

MU 495. (3) **Music Practicum.** Selected problems and practice emphasizing actual professional work situations in commercial music, sacred music, performance, and music education through special study, projects or field experience under departmental supervision and evaluation. May be repeated once. Prerequisite: departmental approval. (Fall, Spring, Summer)

NURSING RN-to-BSN FLEX-TRACK ON-LINE

Nursing on-line courses (NU) 302R, 303R, 305R, 411R, 416R, and 418R are required to complete the BSN degree. Nursing students in the RN-toBSN Flex-Track curriculum have preference to on-line courses. A distance learning fee is required. Courses are offered on sufficient demand.

NU 302R. (6) **Community Health Nursing On-Line.** An asynchronous online course that introduces student to the theoretical concepts of community and population based community health nursing practice with an emphasis on health promotion, health education and community assessment as applied to nursing practice in a community-based health care setting. Includes clinical components. Prerequisites: admission to the online nursing major, active RN licensure.

NU 303R. (3) **Research in Nursing On-Line.** An asynchronous online course that introduces the research process in nursing. Focuses on the use of research in nursing practice. Prerequisite: departmental approval required.

NU 305R. (3) **Health and Physical Assessment On-Line.** This asynchronous online course is designed for RN-BSN students. It focuses on

techniques of physical assessment, normal assessment findings, selected abnormal findings, and changes in assessment findings across the life span. Prerequisite: departmental approval required.

NU 322R. (2) **Stress Management**. An asynchronous online course that explores the causes, stages and signs of personal and professional stress. Emphasis will be placed on preventing and controlling anxiety associated with stress in self and others through general life management skills and specific stress reduction techniques.

NU 323R. (3) **Women's Health On-Line**. This asynchronous online course discusses issues in health promotion and disease prevention in women from young adulthood through senescence. Prerequisite: departmental approval required.

NU 326R. (3) **Pharmacology On-Line**. This asynchronous online course discusses the use of pharmacological agents in the care of patients across the lifespan. The pharmacodynamic and pharmacotherapeutic properties of major classifications of drugs are discussed. Prerequisite: departmental approval required.

NU 411R. (6) **Leadership and Management in Nursing On-Line**. An asynchronous online course that focuses on leadership/management theories and concepts basic to the planning, organizing, directing, and delivering of nursing services in health care settings. Includes clinical components. Prerequisite: admission to the online nursing major, active RN licensure.

NU 413R. (3) **The Young Child and Health Care**. An asynchronous online course that focuses on the health problems and needs of young children (ages 4-8) with emphasis on school health assessment and referral methods.

NU 415R. (1-3) **Independent Study On-Line**. An independent study project for investigation of some aspect of nursing in which the student has developed special interest, and using guidelines developed by the student with appropriate faculty guidance, supervision and evaluation. Prerequisite: departmental approval required.

NU 416R. (6) **Role/Theory On-Line**. An asynchronous online course that introduces the concepts of expanded nurse roles related to the diverse needs of present day society. Includes clinical components. Prerequisite: admission to the online nursing major, active RN licensure.

NU 418R. (6) **Nursing Concepts, Issues and Theories**. An asynchronous online course, which explores issues and concepts that affect and influence nursing practice and the delivery of nursing care. This course examines the history of nursing from its origins to the present, including the development and use of nursing knowledge and its application to the practice arena. Nursing theories and related theories are examined as well as other types of nursing knowledge. Prerequisite: admission to the online nursing major, active RN licensure.

NURSING (NU)

NU 201. (1) **Managing Stress**. A course which will study the causes, stages, and signs of personal and professional stress. Emphasis will be placed on preventing and controlling the anxiety associated with stress

through general life management skills and individualized holistic stress-management program based on person insights, needs, and abilities. This course is applicable for general elective credit only. Open to all students. (Offered on sufficient demand)

NU 202. (3) **Computations for Health Care Personnel.** Focuses on calculations utilized for the safe administration of medications and intravenous solutions. Basic mathematical operations will be reviewed as they relate to dosage calculations. The course will progress from simple dosage calculations to complex calculations such as units/hour, milligrams/hour, and micrograms/kilogram/hour. Calculations of dosages for all age groups will be included. Open to all students. (Offered on sufficient demand)

NU 301. (6) **Fundamentals of Professional Nursing.** Teaches basic concepts of professional nursing care with emphasis on physical assessment and nursing skills. Three class hours; six laboratory hours per week. Prerequisites: admission to the upper-division nursing major; first semester junior standing. Special fee: \$30.00. (Fall, Spring)

NU 302. (6) **Community Health Nursing.** Introduces wellness theory in promoting health behaviors of families, groups, and communities, while appropriately networking with community resources. Three class hours; six laboratory hours per week. Prerequisites: admission to the upper-division nursing major; first semester junior standing. Special fee: \$30.00. (Fall, Spring)

NU 304. (6) **Adult Health Nursing I.** Introduces the nursing process including a study of basic adaptive/maladaptive human behaviors and mechanisms. Focuses on commonly occurring health deviations. Three class hours; six laboratory hours per week. Prerequisite: completion of Level I. Special fee: \$30.00. (Fall, Spring)

NU 305. (3) **Health and Physical Assessment.** A clinical practicum/seminar course which utilizes the nursing process to focus on physical assessment findings across the lifespan. Three laboratory hours; two class hours per week. Prerequisites: admission to the upper-division nursing major; first semester junior standing. Special fee: \$30.00. (Fall, Spring)

NU 306. (6) **Mental Health Nursing.** Focuses on concepts of psychiatric-mental health with emphasis on therapeutic care of adults with common psychiatric problems. Three class hours; six laboratory hours per week. Prerequisite: completion of Level I. Special fee: 30.00. (Fall, Spring)

NU 307. (3-6) **Nursing for Intraoperative Patients.** A clinical course enabling students to learn entry level nursing roles in operating room settings. Course content will include theoretical and clinical experiences with patients during intraoperative periods. Clinical experiences will be conducted with preceptors as role models and demonstrators of the use of nursing process with patients in surgery. Prerequisite: completion of Level I. (Offered on sufficient demand)

NU 308. (3) **Pharmacology in Nursing.** Designed for undergraduate nursing students. It focuses on principles of pharmacology and will provide current and clinically relevant information organized by body systems. It will be primarily delivered online with on campus lab components. Prerequisite: completion of Level I. Special fee: \$30.00. (Fall, Spring)

NU 310. (3) **Cultural Diversity in Health Care: Concepts, Issues, and Trends.** Focus will be placed on the importance of knowledge, skills, and understanding essential to appreciate individuals from diverse cultural groups. Concepts and principles will be used to compare and analyze cultural beliefs, customs, lifestyles, and behaviors impacting health care practices in selected cultural groups. Issues and trends will be explored. Exercises and scenarios to promote an appreciation of cultural richness will be presented. This course is applicable for general elective credit only. Open to all students. (Offered on sufficient demand)

NU 323. (1-3)**Women's Health.** Study of health promotion and disease prevention for women from adolescence through senescence. Students and faculty will determine topics from the following areas: reproductive anatomy and physiology, sexuality, family planning, fertility and infertility, infectious diseases, gynecological disorders, violence against women, and other issues which are determined by the class such as management of body weight, nutrition, stress, and women's roles in the workplace. Open to all students. Also listed as WS 323 but creditable only in field for which registered. (Offered on sufficient demand)

NU 324. (3) **Abusive Behaviors.** A study of any activity which is currently designated as abusive to self or others. Students and faculty will determine topics for each semester from the following areas: alcohol and drug abuse, eating disorders, harassment in society and in the workplace, incest, rape, use of weapons, and violence in the home, neighborhood, and community. The effect of abusive behaviors on the abuser, the abused, and others will be addressed. Open to all students. (Offered on sufficient demand)

NU 325. (1) **Health Care Lecture Series.** Use of guest lecturers to explore various topics designed to promote awareness of the interdisciplinary approach to health care. (Fall, Spring)

NU 327. (1-3)**Health in Childbearing.** Study of healthy childbearing. Topics will include preparation for conception, pregnancy, and the entire childbearing cycle. Students enrolled in the course may negotiate with the professor(s) to include students' specifically desired topics and hours of credit. Methods of teaching may include seminars, demonstrations and return demonstrations, group work, and lecture/discussions by professor(s) and guest lecturers. Open to all students. Also listed as WS 327 but creditable only in field for which registered. (Offered on sufficient demand)

NU 403. (3) **Gerontology.** The primary focus is on the biological, psychological, and sociological aspects of aging with an emphasis on community services available to the aging population. Also listed as SO 403 and SW 403 but creditable only in field for which registered. (Fall, Spring)

NU 406W. (3) **Research in Nursing.** Introduces the research process in nursing. Focuses on the use of research in nursing practice. Three class hours per week. Prerequisites: admission to the upper division nursing major; third semester senior standing. (Fall, Spring)

NU 407. (6) **Adult Health Nursing II.** A continuation of the study of nursing process with adults having commonly occurring health deviations. Three class hours; six laboratory hours per week. Prerequisite: completion of Level II. Special fee: \$30.00. (Fall, Spring)

NU 409. (6) **Maternity Nursing.** Introduces nursing process with childbearing families during the prenatal, intrapartal, postpartal, and neonatal periods. Three class hours; six laboratory hours per week. Prerequisite: completion of Level II. Special fee: \$30.00 (Fall, Spring)

NU 410. (6) **Pediatric Nursing.** Introduces nursing process with childrearing families having children in various stages of development and with commonly occurring health deviations. Three class hours; six laboratory hours per week. Prerequisite: completion of Level III. Special fee: \$30.00. (Fall, Spring)

NU 411. (6) **Leadership and Management in Nursing.** Teaches concepts for leadership roles in nursing. Three class hours; six laboratory hours per week. Prerequisite: completion of Level III. Special fee: \$30.00. (Fall, Spring)

NU 413. (3) **The Young Child and Health Care.** A study of the health problems and needs of young children (ages 4-8), with emphasis on health assessment and referral methods. Not applicable for credit in the nursing major. (Offered on sufficient demand)

NU 414. (3) **Senior Internship and Review.** Designed as an internship, which allows students to focus on selected specialty areas in which to enhance clinical skills. An exit exam is required to validate mastery of nursing content and related skills. One-hour class per week; eighty hours per semester-lab/clinical. Prerequisite: completion of Level III and concurrent enrollment or completion of Level IV courses. Special fee: \$30.00. (Fall, Spring)

NU 415. (1-3) **Guided Study in Professional Inquiry.** An independent study project for investigation of some aspect of nursing in which the student has developed special interest, and using guidelines developed by the student with appropriate faculty guidance, supervision, and evaluation. Departmental approval required. (Fall, Spring)

NU 420. (3) **Health and Aging.** Interdisciplinary course which focuses on the physiological changes experienced by individuals as they age. Specific attention will be placed on the unique changes that occur among the elderly. Also listed as HED 420 but creditable only in field for which registered. (Offered on sufficient demand)

PHYSICAL EDUCATION (PE)

PE 102. (1) **Weight Training and Conditioning.** Scientific application of the principles of anatomy, kinesiology, physiology, and psychology in designing a program in keeping with the individual's age, body type, physical condition, and personal needs and goals. Two class periods per week. (Fall, Spring, Summer)

PE 105. (1) **Walking/Jogging/Running.** Encompasses all aspects of walking, jogging, and running from prestretching warm-up routines to actual walking, jogging, and running. Students may select any one of the three activities. Designed to improve the cardiovascular system. Two class periods per week. (Fall, Spring, Summer)

PE 106. (1) **Beginning Tennis.** Basic strokes, movement, rules, and play techniques for the beginner. Two class periods per week. (Fall, Spring, Summer)

PE 107. (1) **Intermediate Tennis.** Improvement and refinement of stroking and play; tactics and game procedures. Two class periods per week. Prerequisite: PE 106 or acceptable skill. (Spring, Summer)

PE 108. (1) **Beginning Golf.** The basic skills of golf with practical application on the golf course. Two class periods per week. Special fee: \$30.00. (Fall, Spring)

PE 109. (1) **Bowling.** The basic skills of bowling with practical application of special skills in a class league. Two class periods per week. Special fee: \$30.00. (Fall, Spring, Summer)

PE 110. (1) **Badminton.** Basic skills and strategy of badminton with practical application in class tournaments. Two class periods per week. (Fall)

PE 112. (1) **Beginning Racquetball.** Basic skills and strategy of racquetball with practical application on racquetball courts. Two class periods per week. Special fee: \$30.00. (Offered on sufficient demand)

PE 116. (1) **Introduction to Individual and Dual Sports.** A course designed to teach individual/dual sports activities (i.e., tennis, pickleball, badminton, etc.) basic to the physical education programs. Emphasis is placed on skill techniques, methods, and effective techniques of teaching sport skills. Evaluation techniques for measuring knowledge and skill in these activities will also be stressed. NOTE: this course is designed for HPER majors. (Spring)

PE 118. (1) **Advanced Golf.** Improvement and refinement of the golf swing, with primary emphasis on individual instruction and playing. Two class periods per week. Prerequisite: PE 108 or acceptable skill. Special fee: \$30.00. (Offered on sufficient demand)

PE 119. (1) **Beginning Self-Defense/Karate.** Course covers the basic history, culture, and theories of the fighting arts. Various skills and techniques used to defend oneself with practical application in class. Students are required to purchase their own uniform. Two class periods per week. (Fall, Spring)

PE 120. (1) **Advanced Self-Defense/Karate.** Improvement and refinement of the basic skills of self-defense, with primary emphasis on self-defense strategy and advanced skill development. Students are required to purchase their own uniform. Two class periods per week. Prerequisite: PE 119 or equivalent skill. (Offered on sufficient demand)

PE 123. (1) **Volleyball.** Fundamental skills, rules, and strategy of volleyball. Two class periods per week. (Spring)

PE 125. (1) **Basketball.** The fundamental skills, rules, and strategy of basketball. Two class periods per week. (Fall)

PE 126. (1) **Introduction to Team Sports.** A course designed to teach team sports activities (i.e., basketball, volleyball, softball, soccer, etc.) basic to the physical education program. Emphasis is placed on skill techniques, methods, and effective techniques of teaching sport skills. Evaluation techniques for measuring knowledge and skills in these sports will also be stressed. NOTE: this course is designed for HPER majors. (Fall)

PE 130. (1) **Beginning Swimming.** A basic skills course for the non-swimmer as suggested by the American Red Cross. Two class periods per week. (Fall, Spring)

PE 131. (1) **Intermediate Swimming.** Emphasis on the five basic strokes, personal safety, and self-rescue. Two class periods per week. Prerequisite: PE 130 or equivalent skill. (Fall, Spring)

PE 140. (1) **Aerobic Dance.** Designed to provide a physical fitness program that offers complete and effective conditioning. Emphasis on moving for fitness and fun. Two class periods per week. (Fall, Spring, Summer)

PE 142. (1) **Square Dancing.** Designed to introduce a variety of Eastern and Western style square dances. Two class periods per week. (Spring)

PE 150. (1) **Restrictive Physical Education.** Assignment to an appropriate activity program for students physically unable to participate in a regular activity. Individual assignment by the chair of the department. May be repeated for credit to a maximum of four semester hours. Two class periods per week.

PE 202. (3) **Lifeguard Instruction.** Emphasis on the water rescue skills required for American Red Cross lifeguarding certification. Two class periods per week. Prerequisite: PE 131 or equivalent skill. (Offered on sufficient demand)

PE 203. (3) **Teaching Aquatics.** Refinement of the five basic strokes. Emphasis on developing instructional techniques for swimming. Two class periods per week. Prerequisite: PE 131 or equivalent skill. (Offered on sufficient demand)

PE 221. (3) **Introduction to the History, Principles, and Philosophy of Health, Physical Education, and Recreation.** An introduction to the profession including professional organizations, career opportunities, historical development, basic principles underlying contemporary theory and practice, and the development of a sound professional philosophy. (Fall, Spring)

PE 233. (3) **First Aid.** Combines the study of first aid and safety as recommended by the American Red Cross, together with methods of prevention and care of injuries in physical education and athletics. Two class periods; one 1-hour laboratory period per week. (Fall, Spring, Summer)

PE 270. (1) **Practical Experiences in Physical Education.** Internship experiences in guiding individuals and groups in skill learning and health/fitness activities. Designed for prospective majors only. Two assigned class periods per week in the Physiology Laboratory and/or Faculty and Staff Wellness Center plus one hour seminar per month. Prerequisite: PE 233. (Fall, Spring)

PE 275. (1) **Officiating Sports.** Theory and practice of officiating team, individual, and dual sports. Two laboratory periods per week. (Fall, Spring)

PE 300. (3) **Methods of Physical Education, Grades 6-12.** Methods of teaching physical education in grades 6-12, including factors of purpose, growth and development, motor learning, program planning, and evaluation. Prerequisite: PE 221. (Spring)

PE 304. (3) **Physical Education for the Elementary School Teacher.** Principles of elementary physical education, graded games, stunts, rhythmical activities, and relays with methods of presentation. Recommended preparation: ED 300. (Fall)

PE 340. (3) **Introduction to Parks and Recreation.** Nature of recreation experience and its importance to the individual; influence of leisure or society; public, voluntary, military, and commercial delivery systems for recreation and park services. (Fall)

PE 341. (3) **Recreational Programs.** Methods and leadership in organizing, teaching, and conducting continuing programs of recreation for persons of all age groups. (Fall)

PE 343. (3) **Therapeutic Recreation.** Theoretical and philosophical foundations of therapeutic recreation, history of therapeutic recreation, concepts of illness and disability role of the professional recreation therapist, and survey of therapeutic recreation services and settings. Prerequisite: PE 340. (Summer)

PE 345. (3) **Community Recreation and Parks Administration.** Designed to provide insight into the organization, staffing, budgeting, and administrative practices of professional recreation as practiced in state, municipal, industrial, and federal parks and centers. (Spring)

PE 352. (3) **Kinesiology.** Human movement, muscular growth and development, physiology of muscular contraction, motor learning, and scientific application of kinesiological principles. Three class periods. Prerequisite: BI 141 or 142. (Fall, Spring, Summer)

PE 353W. (3) **Physiology of Exercise.** The effects of exercise on structure and function; circulorespiratory adjustments during exercise; metabolic and environmental aspects of exercise; fatigue and training. Prerequisite: BI 141 or 142. Special fee:\$30.00. (Fall, Spring)

PE 370. (3) **Theory and Problems in Coaching Sports.** Designed to aid the student in identifying, analyzing, and evaluating recent developments in coaching and basic issues in the profession. Prerequisite: PE 221. (Fall)

PE 371. (3) **Coaching Practicum.** Students are to be assigned to on-the-job experience as student assistant coaches in schools qualified to provide coaching experiences. Prerequisites: PE 221, 233, 370. (Fall)

PE 378. (3) **Athletic Training and Conditioning.** Application of athletic training principles and techniques necessary for the care and prevention of athletic injuries. Two class periods; one 1-hour laboratory period per week. Prerequisite: PE 233, 352 or 353W. (Fall, Spring)

PE 379. (3) **Prevention and Protective Techniques for Athletic Injuries.** Taping and wrapping techniques used in athletic training including instruction in fabricating and applying protective pads, splints, and supports. Hands-on practical experience emphasized in laboratory sessions. Prerequisite: PE 378. (Offered on sufficient demand)

PE 401. (3) **Adaptive Physical Education.** A study of the atypical child as related to understanding both physical and mental disabilities, and the development of sound physical education programs for each disabling condition. Two class periods; one 1-hour laboratory period per week. Recommended prerequisite: EEX 340. (Fall, Spring)

PE 402. (3) **Exercise Prescription and Fitness Appraisal in the Healthy Individual.** Designed to develop competencies and practical skills used by the professional to evaluate health related components of physi-

cal fitness. General methodologies and procedures used in exercise testing, exercise prescription, risk factor identification and education for healthy individuals will be studied. Prerequisites: PE 233, PE 352, PE 353W.

PE 421. (3) **Psychology of Coaching.** The application of psychological principles and theories of coaching and sports; problems subject to psychological analysis and solution; the relationship of emotional states to performance, the role of coaching in the formation of values, and the emotional reactions of crowds in sports situations; the athlete and his personality and social environment. Prerequisite: PE 370. (Spring)

PE 425. (3) **Nutrition and Human Performance.** Students will examine and evaluate the influence and relationship of the basic nutrients to optimal healthful living and athletic performance. Prerequisites: HED 155, HED 213. (Spring)

PE 428. (3) **Evaluation of Athletic Injuries I.** General assessment techniques with emphasis placed on correlating related anatomy, etiology, signs, and symptoms with the primary evaluation of injuries. Assigned specific laboratory athletic injury evaluation experiences. Prerequisite: PE 379 or permission of the instructor. (Offered on sufficient demand)

PE 429. (3) **Evaluation of Athletic Injuries II.** Continuation of PE 428, general assessment techniques for the head, trunk, and musculoskeletal system and correlating related anatomy, etiology, signs, and symptoms with the primary evaluation of injuries. Assigned specific athletic injury evaluation experiences. Prerequisite: PE 428. (Offered on sufficient demand)

PE 438. (3) **Therapeutic Modalities and Treatment in Athletic Training.** Techniques, indications, and procedures in application of therapeutic modalities use, thermotherapy, cryotherapy, light, sound, electricity, compression, traction, and massage. Prerequisite: PE 378. (Offered on sufficient demand)

PE 439. (3) **Materials and Techniques of Rehabilitation in Athletic Training.** Equipment, techniques, and procedures for injury rehabilitation. Strengthening, flexibility, muscular and cardiovascular endurance conditioning, and proprioceptive training. Prerequisite: PE 378. (Offered on sufficient demand)

PE 441. (3) **Outdoor Education.** Principles of environmental use, group, family, and individual camping. Outdoor teaching of environmental relationships, sports, crafts, and living skills plus weekend outdoor living experience. Three class periods. Special fee: \$30.00. (Fall)

PE 443. (3) **Management of Health, Physical Education, Recreation, and Athletics.** The organization and administration of health, physical education, recreation, and athletic programs in the schools; curriculum planning; budgeting; selection, care, and maintenance of equipment and facilities; personnel and other administrative problems. (Fall, Spring)

PE 445. (3) **Program Planning in Recreation.** Program fields in relation to programming principles, planning objectives, structural organization, purposes and values of types of activities, programs for special groups, and program evaluation. Prerequisite: PE 341, 343, 345 or 441. (Fall)

PE 450. (3) **Motor Learning.** Prepares teachers and coaches to teach motor skills in an effective and efficient manner. Prerequisite: PE 352 or 353W. (Spring)

PE 451. (3) **Tests and Measurement in Health and Physical Education.** Measurement and evaluation in terms of motor ability, physical fitness, body physique, posture and body mechanics, and special physical abilities. Prerequisites: MA 110 or 112; PE 352, 353W. (Fall, Spring, Summer)

PE 478. (3) **Selected Topics in Athletic Training.** Critical readings, lectures, discussions, and laboratory experiences in athletic training not generally included in course offerings. Specific content and nature of course determined by students interests and needs. Topics may include athletic training program implementation, legal aspects, industrial and clinical sports medicine administration, drugs in sports medicine, etc. Prerequisite: 12 hours of athletic training. (Offered on sufficient demand)

PE 490. (3) **Recreational Leadership.** Development of skills and techniques necessary for successful leadership in recreation and park programs. Prerequisite: PE 445. (Spring)

PE 494. (3) **Exercise Prescription for Moderate Risk and Known Disease Individuals.** Competencies and skills for evaluating and prescribing safe and effective therapeutic exercise for individuals with multiple cardiovascular risk factors and/or diagnosed diseases such as heart and lung disease, diabetes and obesity. Prerequisite: PE 402. (Fall, even-numbered years)

PE 495. (3) **Cardiopulmonary Rehabilitation.** Application of physiological principles for clinical exercise evaluation and therapeutic exercise modalities for the individual with controlled cardiovascular, respiratory or metabolic disease such as diabetes. Emphasis will be placed on following American College of Sports Medicine Exercise Guidelines for determining risk stratification, developing appropriate exercise prescriptions and recommended exercise progressions. Prerequisite: PE 494. (Spring, odd-numbered years)

PE 496. (3) **Exercise Leadership.** Designed to develop competencies, skills, methods and procedures used in exercise and fitness program design. Emphasis will be placed on exercise leadership skills, instructional techniques and oral communication during a variety of exercise settings. Prerequisite: PE 495. (Fall, odd-numbered years)

PE 498. (6) **Internship/Clinical/Field Experiences.** Students will be assigned to an approved recreation agency for a period of time, arranged with the student by the instructor and approved by the chair of the department. The student will report to the instructor periodically and will prepare a terminal written report for the instructor and the administrator of the participating recreation agency. Prerequisite: permission of the chair of the department. (Fall, Spring, Summer)

PE 499. (1-3) **Independent Study-Practicum.** Open to senior majors on approval of the department head. Provides for study, research, or special field experience on departmental determination, supervision, and evaluation. (Fall, Spring, Summer)

PHYSICS (PH)

PH 101. (4) **Interactive Physics.** A survey of basic physics principles presented in workshop format: students discover the fundamental principles of physics through hands-on activities, cooperative group learning, and guided explorations of phenomena in Motion, Conservation Laws, Gravity, Oscillations, and Heat and Temperature. Computers and electronic sensors are used in some of the activities, but no previous experience with computers is necessary. Not applicable for credit toward a physics major or minor. Three class periods; one 2-hour laboratory period per week. No prerequisite. Special fee: \$30.00. (Fall, Spring)

PH 121. (4) **Introductory Physics.** An introduction to the physical principles of motion, waves, sound, electricity, magnetism, and light. Computers and electronic sensors are used in some of the activities, but no previous experience with computers is necessary. Not applicable for credit toward a physics major or minor. Three class periods; one two-hour laboratory period per week. No prerequisite. Special fee: \$30.00. (Fall, Spring)

PH 125. (4) **Descriptive Astronomy.** The extraterrestrial environment including the solar system, stars, and galaxies. Cosmology and the development of astronomy is also considered along with topics of current interest. Instruction in the use of astronomical instrumentation is carried out in the observatory and planetarium. Three class periods; one 2-hour laboratory period per week. Special fee: \$30.00. (Fall, Spring)

PH 241. (4) **General Physics I.** A basic physics course covering mechanics, heat, and sound. Designed for students in premedical, pre-dental, prepharmacy, and other programs not requiring calculus-based physics. Not applicable for credit toward major or minor requirements in physics or in curricula specifically requiring PH 251 and 252. Three class periods; one 2-hour laboratory period per week. Prerequisites: MA 112; 113 or 115. Special fee: \$30.00. (Fall, Summer)

PH 242. (4) **General Physics II.** A continuation of Physics 241, covering electricity, magnetism, optics, and topics in modern physics. Three class periods; one 2-hour laboratory period per week. Prerequisite: PH 241. Special fee: \$30.00. (Spring, Summer)

PH 251. (5) **Technical Physics I.** A calculus-based physics course covering mechanics, heat, and sound. Required in preengineering, physics, general and professional chemistry, and industrial hygiene programs. Four class periods; one 2-hour laboratory period per week. Prerequisite or concurrently: MA 122 or 125. Special fee: \$30.00. (Fall, Summer)

PH 252. (5) **Technical Physics II.** A continuation of Physics 251, covering electricity, magnetism, optics, and topics in modern physics. Four class periods; one 2-hour laboratory period per week. Prerequisites: MA 122 or 125; PH 251. Special fee: \$30.00. (Spring, Summer)

PH 343. (4) **Modern Physics.** Special theory of relativity, origin of the quantum theory, the nuclear atom, emission spectra, nuclear forces, structures, and reactions. Prerequisite: PH 252. (Fall)

PH 356W. (4) **Intermediate Laboratory.** Measurements involving the fields of mechanics, electricity, magnetism, heat, sound, optics, and modern physics. Some data analysis by computer will be required. Formal lab-

oratory reports will be graded for scientific content and grammatical correctness. Two class periods; two 2-hour laboratory periods per week. Prerequisite: PH 252. (Spring, odd-numbered years)

PH 380. (3) **Teaching Science in the Secondary Schools.** Examines the problems of teachers in secondary science in integrating laboratory activities into the science curriculum. Provides experiences in planning, preparation, teaching and evaluation of laboratory activities. Considers the use of technology, safety, hazardous waste, teaching resources, student textbooks, and the Alabama Course of Study. Two class periods; one 2-hour laboratory period per week. Field trip and/or term project may be required. This course cannot be used as a 300-level elective in any major or minor other than secondary education. Also listed as BI 380, CH 380, and ES 380 but creditable only in the field for which registered. Special fee: \$30.00. (Fall, even-numbered years)

PH 444. (3) **Quantum Mechanics.** An introduction to quantum mechanics studying the postulates, the wave equation, operator techniques, atomic and molecular structure, and spectroscopy. Also listed as CH 444 but creditable only in the field for which registered. Prerequisites: PH 343; MA 122 or MA 126 or CH 381, 381L. (Spring)

PH 447. (3) **Electricity and Magnetism.** Elements of electric and magnetic fields. Prerequisites: PH 252, MA 122 or 126 or concurrently. (Fall, even-numbered years)

PH 448. (3) **Electromagnetic Fields.** Maxwell's equations, multipole fields, the wave equation with boundary conditions, and selected topics from relativistic electrodynamics. Prerequisite: PH 447. (Spring, odd-numbered years)

PH 456. (3) **Statistical Mechanics.** Elements of classical statistical mechanics and thermodynamics, with an introduction to quantum statistical mechanics. Also listed as CH 456 but creditable only in field for which registered. Prerequisites: MA 122 or 126 or concurrently, PH 252. (Fall, even-numbered years)

PH 471. (3) **Mechanics I.** Statics and kinematics of particles and rigid bodies including periodic motion. Prerequisites: PH 252, MA 122 or 126 or concurrently. (Fall, odd-numbered years)

PH 472. (3) **Mechanics II.** Moving coordinate systems, LaGrange's and Hamilton's equations, rotation of rigid bodies, fluid mechanics. Prerequisite: PH 471. (Spring, even-numbered years)

PH 480-489. (3) **Topics in Physics.** Topics will be selected from electronic instrumentation, optics, spectroscopy, nuclear physics, solid state physics, statistical mechanics, and mathematical physics. Departmental approval required. A \$30.00 laboratory fee may be required according to topic. (Offered on sufficient demand)

PH 495. (1-2) **Directed Research.** Experimental, theoretical, or computational investigation of problems in physics under the direction of departmental faculty, with enrollment and projects subject to prior approval of the department. Formal reports of research progress will be required for credit. Scheduled work and conferences require a minimum average of three hours per week per credit hour. May be repeated to a maximum of

four credit hours. Prerequisite: departmental approval required. (Fall, Spring, Summer)

PHILOSOPHY (PHL)

PHL 201. (3) **Introduction to Philosophy.** A study of the ideas and techniques used by man in his quest for reality through an analysis of the basic problems of metaphysics, epistemology, logic, and ethics placed in historical perspective. (Offered on sufficient demand)

PHL 202. (3) **Logic.** A study of the methodology of reasoning. (Offered on sufficient demand)

PHL 205. (3) **Ethics.** A study of ethics in everyday life with special attention to situations arising from the expansion of technology and medicine. (Offered on sufficient demand)

PHL 303. (3) **Philosophy of Religion.** The value and function of religion with an attempt to give students an understanding of religion to enable them to work out their own philosophy. Also listed as RE 303 but creditable only in the field for which registered. (Offered on sufficient demand)

PHL 331. (3) **History of Western Philosophy I.** A survey of major philosophers and philosophical concepts from the ancient Greeks to the Renaissance. Also listed as HI 331 but creditable only in the field for which registered. (Offered on sufficient demand)

PHL 332. (3) **History of Western Philosophy II.** A survey of major philosophers and philosophical concepts from the Renaissance to the present. Also listed as HI 332 but creditable only in the field for which registered. (Offered on sufficient demand)

PHL 402. (3) **Religion and Ethics.** A study of ethics in their relation to the personal, moral, and social problems of today. Also listed as RE 402 but creditable only in the field for which registered. (Offered on sufficient demand)

PHL 484. (3) **Philosophical Borderlands of Science and Religion.** An interdisciplinary course concerning the "Demarcation Question"—where do the borders of science end and religion begin? Both critical reasoning and historical analysis of those areas that have been perceived on the fringes of science, including: Alchemy, Astrology, Atlantis, Galileo and the Church, Mesmerism, Spiritualism, Theosophy, ESP, Near-Death Experiences, UFO's and Alien Abductions, Eugenics, the New Age Movements, and the Tao of Physics. A strong philosophical component is included, particularly the application of logical fallacies. Also listed as HI 484 and RE 484 but creditable only in field for which registered. (Offered on sufficient demand)

PHL 490. (1-3) **Special Topics.** A study of one or more carefully selected topics in philosophy. The length of time and amount of study will determine the amount of credit earned. (Offered on sufficient demand)

PUBLIC RELATIONS (PR)

PR 495. (3) **Public Relations Internship.** Field experience in public relations. Recommended only for senior public relations majors. Prerequisites: COM 230; departmental approval required. (Fall, Spring, Summer)

PR 496. (3) **Practicum.** Special projects in public relations under departmental supervision. Departmental majors may not apply off-campus internships toward requirements of PR 496. Prerequisite: departmental approval. (Fall, Spring, Summer)

PR 499. (3) **Independent Study.** Completion of a supervised individual project in public relations. Prerequisite: departmental approval. (Offered on sufficient demand)

POLITICAL SCIENCE (PS)

PS 241 or departmental approval is prerequisite to all advanced political science courses.

PS 241. (3) **United States Government and Politics.** A study of the institutions and processes of government, federalism, electoral behavior, interest groups, and the role of the mass media. (Fall, Spring, Summer)

PS 242. (3) **Contemporary Issues in United States Politics.** An examination of current major domestic and foreign policy issues. (Fall, Spring)

PS 243. (3) **State and Local Government and Politics.** A study of United States federalism with an emphasis on Alabama state and local government and politics. (Spring)

PS 301W. (3) **Political Science Scope and Methods.** A study of the development of political science, its relation to the other social sciences, and the current research methodologies employed by political scientists. (Spring)

PS 342. (3) **Parties, Elections and Voting Behavior.** A study of the development and functions of political parties, the role of elections, public opinion, interest groups, modern political campaigns and theories of individual and group voting behavior. (Fall, even-numbered years)

PS 344. (3) **Judicial Process and Behavior.** A study of the organization and structure of courts in the United States, how cases reach the courts, the judicial decision-making process, issues surrounding judicial power, interpretation and decision implementation. (Fall)

PS 345. (3) **Congress and the Presidency.** A study of the development and organization of the legislative and executive branches with particular attention to the committee system, parties in Congress, and the Presidency. (Fall, odd-numbered years)

PS 351. (3) **Ancient and Medieval Political Theory.** A study of the political thought of prominent political philosophers from Socrates to Machiavelli. (Fall)

PS 352. (3) **Modern Political Theory.** A study of the political thought of prominent political philosophers from Hobbes to the present. (Spring)

PS 370. (3) **Women in American Politics.** An overview of the role of women in American politics and the role of government in defining the status of women in society. Examines the political behavior of American women and public policies which specifically impact women. Also listed as HI 370 and WS 370 but creditable only in field for which registered. (Spring, odd-numbered years)

PS 402. (3) **Problems in Political Geography.** The place of geographic factors in conditioning the basic political structure of major nations. Also listed as GE 402 but creditable only in field for which registered. (Fall)

PS 430. (3) **English Constitutional History.** A study of the development of the English Constitution from the Anglo-Saxon period to the present. Also listed as HI 430 but creditable only in field for which registered. (Fall, even-numbered years)

PS 431. (3) **International Relations.** An introduction to the nature of international relations, and to the forces and practices prevalent in contemporary world politics. (Spring, odd-numbered years)

PS 433. (3) **Comparative Government and Politics.** A comparative study of the systems of government of major countries of the world. (Fall)

PS 435. (3) **International Organization.** A study of the development, problems, and role of international organizations, with special emphasis on the United Nations and its agencies. (Spring, even-numbered years)

PS 477. (3) **Constitutional History of the United States.** The principles of the American constitutional system. The leading decisions of the Supreme Court with reference to federal-state governmental relationship, citizenship, police power, eminent domain, and to the commerce, contract, and due process clauses of the Federal Constitution. Also listed as HI 477 but creditable only in field for which registered. (Spring, Summer)

PS 478. (3) **The Diplomatic History of the United States.** A study of the United States diplomatic relations with foreign nations since 1778 with special emphasis on American growth and development. Also listed as HI 478 but creditable only in field for which registered. (Offered on sufficient demand)

PS 481. (3) **Contemporary United States Foreign Policy.** A study of the United States foreign policy from World War II to the present. Also listed as HI 481 but creditable only in field for which registered. (Fall)

PS 489. (3) **American Political Thought.** A study focusing on American political thought from the Federalists/Anti-Federalists debates to contemporary thinkers. (Spring)

PS 490. (1-3) **Special Topics.** A study of one or more major political science topics. The length of time and the amount of study on each topic will determine the amount of credit earned. (Offered on sufficient demand)

PS 495. (3) **Government Internship Practicum.** (Open only to senior majors in political science.) Professional work situations in government through special internship programs under departmental supervision and evaluation. Departmental approval required. (Fall, Spring, Summer)

PS 499. (3) **Independent Study-Practicum.** Open to senior majors in political science. Provides for independent study, research, or special field experience under departmental determination, supervision, and evaluation. (Fall, Spring, Summer)

PSYCHOLOGY (PY)

Psychology 201 is prerequisite to all other courses in psychology.

PY 201. (3) **General Psychology.** An introductory survey of major content

areas in psychology: learning, sensory and perceptual processes,

motivation, physiological bases of behavior, social behavior, abnormal behavior, and methods of psychology. (Fall, Spring, Summer)

PY 242. (3) **Psychology of Adjustment.** The concept of adjustment and factors which influence social and emotional behavior. The applications of adjustment to schools, industries, social agencies, family groups, and to psychiatric and penal institutions. (Fall, even-numbered years)

PY 299. (3) **Human Growth and Development.** Characteristics of and interrelationships among the physical, mental, social, and emotional aspects of human growth and development. Not applicable for credit toward a psychology major or minor. Also listed as ED 299 but creditable only in field for which registered. Prerequisite: PY 201. (Fall, Spring, Summer)

PY 302. (3) **Abnormal Psychology.** The origins, developments, and possible outcomes of extremely deviate behavior. (Fall, Spring)

PY 321. (3) **Learning.** A study of the basic problems, theories, concepts, and research in the areas of human and animal learning. (Spring)

PY 344. (3) **Developmental Psychology.** The study of the behavioral, perceptual, cognitive, and personality changes that occur in humans as a function of maturation and aging. (Spring)

PY 350. (3) **Psychology of Adult Development and Aging.** A survey of the sensory, cognitive, personality, and interpersonal characteristics of older individuals and the factors that relate to them. (Fall, even-numbered years)

PY 361. (3) **Physiological Psychology.** A study of the anatomy and physiology of the nervous, sensory, and glandular systems as related to psychological function. (Fall)

PY 365W. (3) **Experimental Psychology.** Experimental methods, techniques, and apparatus involved in the study of behavior with emphasis on learning and perception; laboratory work designed to demonstrate basic scientific principles and processes in psychology. Prerequisite: MA 112 or equivalent. (Fall, Spring)

PY 375. (3) **Psychological Statistics.** Descriptive and inferential statistics; survey of intermediate statistics and experimental design, with emphasis on application and interpretation. Prerequisite: MA 147. (Spring)

PY 385. (3) **Cognitive Psychology.** A survey of the major principles and theories of cognitive psychology including memory, attention, reasoning, problem solving, language, creativity, and artificial intelligence. (Fall)

PY 415. (3) **Personality.** A survey of the major theories of personality, with some emphasis on development, description, assessment, and the experimental study of personality. Recommended: MA 147. (Fall, even-numbered years)

PY 425. (3) **History and Systems of Psychology.** An historical introduction to the ideas and contributions to psychological thought and knowledge. (Fall, odd-numbered years)

PY 435. (3) **Industrial and Organizational Psychology.** Application of psychological principles to problems of personnel selection and placement, industrial training, and human relations in business and industry. (Offered on sufficient demand)

PY 442. (3) **Social Psychology.** The psychology of groups and their influences on the individual. Also listed as SO 442 but creditable only in field for which registered. (Spring)

PY 451. (3) **Introduction to Psychological Tests.** A course designed to introduce the essential characteristics of psychological tests, including types, development, and standardization, validation, uses, and interpretation. Recommended: MA 147. (Offered on sufficient demand)

PY 460. (3) **Introduction to Clinical Psychology.** A survey of the models, methods, and professional areas of clinical psychology including an overview of the field, ethical and legal considerations, assessment, intervention, and specialties. Prerequisite: PY 201. Recommended: PY 302, PY 451. (Offered on sufficient demand)

PY 490. (3) **Topics in Psychology.** A detailed study of a particular topic of special interest. Topics will vary but will be listed in the schedule of classes and on the student's transcripts. May be repeated once for credit with change of topic. (Offered on sufficient demand)

PY 499. (1-3) **Independent Study or Research.** Open to junior or senior level psychology majors on approval of the department chair. Provides for independent study or research projects under departmental determination, supervision, and evaluation. May be repeated to a maximum of three credit hours. (Fall, Spring, Summer)

QUANTITATIVE METHODS (QM)

QM 291. (3) **Statistical Process Control.** Theory and application of statistical process control including experimental design, X-Bar, R and P charts, and acceptance sampling. Prerequisite: MA 112. (Fall, Spring)

QM 292. (3) **Statistical Analysis for Business.** Application of statistical analysis to problems in business and economics. Simple and multiple regression and correlation analysis, decision making under uncertainty, time series, and nonparametric statistics. Prerequisite: QM 291. (Fall, Spring)

QM 295. (3) **Quantitative Methods in Business and Economics.** A survey of mathematical tools used in business and economics, including calculus, matrix algebra, and linear programming. Prerequisites: EC 251, 252; MA 112. (Fall, Spring)

QM 395. (3) **Decision-Making Techniques for Business.** Decisionmaking techniques available to management, including linear programming, integer programming, game theory, simulation, Markovian Chains, and queuing theory. Prerequisite: QM 292.

QM 480. (3) **Regression and Time-Series Analysis.** Extensive analysis of simple and multiple regression in both linear and nonlinear forms. Techniques of instrumental variables and model building. Extensions of regression to time-series and econometrics. Emphasis is on application of models to actual business problems. Prerequisite: QM 292.

QM 490. (3) **Experimental Design and Advanced Statistical Process Control.** Basic experimental design and statistical process control methods, including randomized block, factorial, nested, repeated measures, and alias structure designs, and Shewhart, CUSUM, EWMA, and retrospective control charts. Emphasis is placed on techniques commonly used in industrial data analysis. Prerequisite: QM 292.

QM 499. (3) **Independent Study-Practicum.** Open to senior majors on approval of the department chair. Provides for study, research, or special field experience under departmental determination, supervision, and evaluation.

RELIGION (RE)

RE 221. (3) **Old Testament Introduction.** Study of the writings of the Old Testament with special attention to the methods, principles, and tools for such study and to the historical, literary, and theological aspects and significance of these writings. (Offered on sufficient demand)

RE 231. (3) **New Testament Introduction.** Study of the writings of the New Testament with special attention to the methods, principles, and tools for such study and to the historical, literary, and theological aspects and significance to these writings. (Offered on sufficient demand)

RE 303. (3) **Philosophy of Religion.** The value and function of religion with an attempt to give students an understanding of religion to enable them to work out their own philosophy. Also listed as PHL 303 but creditable only in the field for which registered. (Offered on sufficient demand)

RE 321. (3) **Life of Jesus.** The life and teachings of Jesus based primarily on the four Gospels with practical applications in relation to our current personal and social problems. (Offered on sufficient demand)

RE 331. (3) **Life and Letters of Paul.** The life and teachings of Paul based on The Acts and The Epistles of Paul. (Offered on sufficient demand)

RE 401. (3) **Religions of the World.** An introduction to the major religious traditions of today's world. Attention will be given to the origins, founders, and basic teachings of these religions and to the interrelation of the religions and the cultures of peoples. (Offered on sufficient demand)

RE 402. (3) **Religion and Ethics.** A study of ethics in their relation to the personal, moral, and social problems of today. Also listed as PHL 402 but creditable only in the field for which registered. (Offered on sufficient demand)

RE 479. (3) **History of Religion in the United States.** A nonsectarian study of the role of religion in American history. Also listed as HI 479 but creditable only in field for which registered. (Offered on sufficient demand)

RE 484. (3) **Philosophical Borderlands of Science and Religion.** An interdisciplinary course concerning the "Demarcation Question"—where do the borders of science end and religion begin? Both critical reasoning and historical analysis of those areas that have been perceived on the fringes of science, including: Alchemy, Astrology, Atlantis, Galileo and the Church, Mesmerism, Spiritualism, Theosophy, ESP, Near-Death Experiences, UFO's and Alien Abductions, Eugenics, the New Age Movements, and the Tao of Physics. A strong philosophical component is included, particularly the application of logical fallacies. Also listed as HI 484 and PHL 484 but creditable only in field for which registered. (Offered on sufficient demand)

RE 490. (1-3) **Special Topics.** A study of one or more carefully selected religion topics. The length of time and amount of study will determine amount of credit earned. (Offered on sufficient demand)

RADIO-TELEVISION-FILM (RTF)

RTF 493. (3) **Broadcast Journalism Newsroom Practicum.** Special newsroom experience designed to familiarize students with various operations, responsibilities and skills required in a radio or television newsroom. Prerequisites: COM 220, 242, and 316. The course may be taken only once and requires departmental approval. (Fall, Spring, Summer)

RTF 495. (3) **Radio-Television-Film Internship.** With departmental assistance students will arrange for full- or part-time professional job assignments in area or regional cable systems, radio and television stations, or film production houses. Prerequisite: departmental approval required. (Fall, Spring, Summer)

RTF 496. (3) **Radio-Television-Film Practicum.** Special projects in radio-television-film under departmental supervision. Radio-television-film majors may not apply off-campus internships toward requirements of RTF 496. Prerequisite: departmental approval required. (Fall, Spring, Summer)

RTF 499. (3) **Independent Study.** Completion of a supervised individual project in radio-television-film. Prerequisite: departmental approval. (Offered on sufficient demand)

SOCIOLOGY (SO)

Sociology 221 is prerequisite to all other courses in sociology except Sociology 223.

SO 221. (3) **Introductory Sociology.** This course examines how social forces shape our behaviors and how we in turn affect the society in which we live. Students learn to apply for sociological perspective through an analysis of culture, socialization, crime and deviance, social inequality, and the primary institutions such as family, religion, government, and education. (Fall, Spring)

SO 222. (3) **Current Social Problems.** A study in social issues; contemporary social problems and their consequences, with special emphasis on American society. (Fall, Spring, Summer)

SO 223. (3) **Marriage and the Family.** A study of origin and evolution of the family as a social institution; the relationships of family structure to social organization; theories, functions, forms, and processes of the family in selected cultures. Also listed as WS 223 but creditable only in field for which registered. (Fall)

SO 231. (3) **Introduction to Anthropology.** An introductory survey of the field of anthropology, with emphasis on the prehistoric development of man and cultures. (Offered on sufficient demand)

SO 300. (3) **Sociology of Sex Roles.** Analysis of social, psychological, and physiological approaches to the development of sex identity and sex roles; effect of differential socialization methods from infancy through adulthood; impact on both men and women of contemporary changes in sex roles. Also listed as WS 300 but creditable only in field for which registered. (Fall, even-numbered years)

SO 307. (3) **Medical Sociology.** Application of sociological concepts and

principles to the study of health professions, medical institutions,

community medical organization, and definition and distribution of illnesses.
(Fall, odd-numbered years)

SO 308. (3) **Aging and Society.** Designed to examine the relationship between the various structures and institutions in society and aging. Emphasis will be placed on the relationship between the family, religion, education, the government and the economic system and individuals as they age. (Fall, odd-numbered years)

SO 309. (3) **Death and Dying.** Provides an understanding of dying, death and bereavement that will assist individuals to better cope with their own deaths and with the deaths of others. (Fall, even-numbered years)

SO 310W. (3) **Methods of Social Research.** An introduction to the selection and formulation of research problems; project design and sampling procedures; data collection, analysis, and interpretation; preparation of reports. (Fall, Spring)

SO 320. (3) **Sociology of Leisure and Recreation.** Sociocultural analysis of the nature and social organization of nonwork activity in modern societies, with emphasis on the structure and dynamics of recreation and their relationship to the major social institutions. (Fall, odd-numbered years)

SO 322. (3) **The Community.** Designed to acquaint the student with contemporary urban and rural communities, with emphasis on basic social institutions and vital processes. (Fall)

SO 323. (3) **Criminology.** A study of crime and criminal behavior in American society, with special emphasis on the individual, group trends, and theories concerning treatment. (Fall)

SO 324. (3) **Population Studies.** A study of population distribution, composition, growth, migration, and vital processes. (Spring)

SO 330. (3) **Juvenile Delinquency.** An analysis of the nature, causes, and extent of juvenile delinquency; and an evaluation of preventive programs. (Spring, even-numbered years)

SO 350. (3) **Cultural Anthropology.** Methods and theories of cultural anthropology; ethnographic study of divergent societies throughout the world. (Spring)

SO 395. (3) **Selected Topics.** Selection of contemporary issues designed to provide the student with analysis of present trends and problems as they relate to the human experience. (Offered on sufficient demand)

SO 400. (3) **Theories of Deviance.** A survey of the major explanations of deviance which have historically influenced both study and practice within the sociological tradition. (Spring)

SO 403. (3) **Gerontology.** The primary focus is on the biological, psychological, and sociological aspects of aging with an emphasis on community services available to the aging population. Also listed as NU 403 and SW 403 but creditable only in field for which registered. (Fall, Spring)

SO 410. (3) **Social Change.** The historical aspect of sociocultural change; relationship among economic, psychological, and sociological variables; concepts, processes, and theories; comparative analysis of sociocultural changes in developed and developing societies. (Fall, even-numbered years)

SO 423. (3) **History of Social Thought.** Theory and methodology in social thought from ancient times to the present. (Fall)

SO 424. (3) **Ethnic and Minority Groups.** The cultural, ethnic, and racial groups in the United States and factors influencing minority groups. (Spring)

SO 428. (3) **Modern Sociological Theory.** A systematic analysis of trends and developments in sociological theory since the 1920's, with emphasis on current theory and its relationship to research. (Spring)

SO 430. (3) **Law and Society.** Analysis of the creation and functioning of law as an element of culture and how law, in its many cultural forms, affects the structure of social institutions and human behavior. (Fall, even-numbered years)

SO 435. (3) **Social Stratification.** Social class, status, and power with particular emphasis on American Society. Theories and characteristics of stratification, processes of differentiation and ranking, consequences of social stratification and social mobility. (Fall, odd-numbered years)

SO 442. (3) **Social Psychology.** The psychology of groups and their influences on the individual. Also listed as PY 442 but creditable only in the field for which registered. (Spring)

SO 495. (3) **Internship in Sociological Practice.** The internship affords sociology majors the opportunity to put concepts, theory and methods into practice through direct involvement with supervisory personnel in professional work environments related to sociology. Internships involve 150 hours of direct contact work and must be completed during one regular semester or a regular summer term. Prerequisites: completion of general core curriculum; minimum cumulative GPA of 2.80; senior status as defined by hours completed (i.e., 96-128 credit hours); approval of the Sociology Department Chair. (Fall, Spring, Summer)

SO 499. (3) **Independent Study-Practicum.** Open to senior majors on approval of the department chair. Provides for independent study, research, or practical experiences under departmental determination, supervision, and evaluation. (Fall, Spring, Summer)

SPANISH (SP)

SP 101. (3) **Introductory Spanish.** Emphasizes listening, speaking, reading and writing skills. Basic concepts of grammar are introduced. Course is enhanced with audio, video, software and Internet components. No prior knowledge of the language is required. (Fall)

SP 102. (3) **Introductory Spanish.** A continuation of Spanish 101. Prerequisite: SP 101 or equivalent. (Spring)

SP 103. (3) **Spanish for Professionals.** Through various specialized sections the course will teach basic communication skills in Spanish for those pursuing careers in education, social work, criminal justice, business or health care. May be repeated once. May substitute for SP 101 with departmental approval, to allow exceptionally prepared students to proceed to SP 102 [SP 111(1) Language Laboratory must also be completed]. SP 103 cannot be substituted for SP 101 in Area II of the General Studies Component. No prerequisites. Special fee: \$30.00. (Fall, Spring, Summer)

SP 111. (1) **Language Laboratory.** Required of all students enrolled in Introductory Spanish 101. Two 1-hour laboratory periods per week. Special fee: \$30.00. (Fall)

SP 112. (1) **Language Laboratory.** Required of all students enrolled in Introductory Spanish 102. Two 1-hour laboratory periods per week. Special fee: \$30.00. (Spring)

SP 201. (3) **Intermediate Spanish.** Grammar review, pronunciation, conversation, diction, composition, and introduction to Spanish literature. Prerequisite: two years of high school Spanish or SP 102. Special fee: \$30.00. (Fall)

SP 202. (3) **Intermediate Spanish.** A continuation of Spanish 201. Prerequisite: SP 201 or equivalent. Special fee: \$30.00. (Spring)

SP 350. (3) **Conversation and Composition.** Practice in oral and written Spanish with development of grammatical usage. Prerequisite: SP 202 or departmental approval. (Fall)

SP 351. (3) **Spanish Civilization.** Survey of Spanish civilization with emphasis on contemporary culture. Prerequisite: SP 202 or departmental approval. (Spring)

SP 352. (3) **Latin American Civilization.** Survey of Latin American civilization with emphasis on contemporary culture. Prerequisite: SP 202 or departmental approval. (Fall, odd-numbered years)

SP 353. (3) **Commercial Spanish.** Introduction to commercial language by means of oral and written practice. Prerequisite: SP 202 or departmental approval. (Fall, even-numbered years)

SP 400W. (3) **Medieval and Renaissance Literature.** Survey of Spanish literature from its origins through the Siglo de Oro. Prerequisite: SP 202 and SP 350 or equivalent. (Spring, even-numbered years)

SP 401W. (3) **Modern Literature.** Survey of Spanish literature from romanticism to contemporary emphasizing the Generation of 98. Prerequisite: SP 350. (Fall, even-numbered years)

SP 402W. (3) **Latin American Literature.** Survey of Latin American literary masterpieces. Prerequisite: SP 350. (Fall, odd-numbered years)

SP 403W. (3) **Advanced Commercial Spanish.** Study of practical commercial language used in business transactions and correspondence. Prerequisite: SP 350. (Spring, odd-numbered years)

SP 498. (1) **Senior Seminar.** Complete review of the grammar of the option language in preparation for the department exit exam. Discussion and research of key issues associated with foreign language learning and the role of foreign languages in education and in commercial contexts. To be taken during the final semester of instruction. SP 498 can be substituted for FL 498. Prerequisite: 18 hours of selected option language at the 300 and 400 level. (Fall, Spring)

SP 499. (1-3) **Independent Study.** Open to majors on approval of the chair of the department. Provides for independent study and/or research under departmental supervision and evaluation. May be repeated for credit. (Fall, Spring, Summer)

SOCIAL WORK (SW)

Social Work 230 is the prerequisite to all other courses in social work.

SW 230. (3) **Introduction to Social Work.** A comprehensive study of the

field of social work including current social problems and related nation-

al/state/local issues with emphasis on the historical development of social services, the profession of social work, professional values and ethics, economic and social issues relevant to diverse populations, and employment opportunities in the field. (Fall, Spring, Summer)

SW 305. (3) **Social Welfare: Policies and Services.** The political, philosophical, and historical perspectives of social welfare policies and services. A study of basic criteria for analysis and formulation of social welfare policies and their implications for diverse populations. Prerequisite: SW 230. (Fall, Spring)

SW 315. (3) **Human Behavior and Social Environment I.** A study of the life span of the individual from infancy to young adulthood from a systems perspective with emphasis on interactions with families, groups, organizations, and communities. Special attention is given to the biological, social, psychological, and cultural forces that affect human behavior with emphasis on values and ethical issues, and the significance of human diversity on behavior in a pluralistic society. A community field experience is required. Prerequisite: SW 230. (Fall, Spring)

SW 316. (3) **Human Behavior and Social Environment II.** A study of the life span of the individual from middle adulthood to later adulthood from a systems perspective with emphasis on interactions with families, groups, organizations, and communities. Special attention is given to the biological, social, psychological, and cultural forces that affect human behavior with emphasis on values and ethical issues, and the significance of human diversity on behavior in a pluralistic society. Prerequisites: SW 305 and 315. (Fall, Spring)

SW 324. (3) **Diversity Issues in Social Work.** A study of the cultural differences and similarities of diverse populations with emphasis on the dynamics and consequences of discrimination, and social and economic injustice. Issues relevant to ethical social work practice will be explored. Prerequisites: SW 305 and 315. (Fall, Spring)

SW 360W. (3) **Methods of Social Work Practice I. Basic** knowledge, values, and skills that conceptualize the core of social work practice. Emphasis is on the generalist approach to practice, including philosophical foundation and professional ethics, the professional relationship, and theoretical and practice approaches to problem solving. Prerequisites: majors only and SW 305 and 315. (Fall, Spring)

SW 361. (3) **Methods of Social Work Practice II.** The focus is on the integration of practice theory, skills and professional ethics in working with individuals and families, examining the strengths and coping mechanism utilized by client systems. A community field experience is required. Prerequisites: majors only and SW 360W. (Fall, Spring)

SW 362. (3) **Methods of Social Work Practice III.** A study of practice theory and skills with small groups, communities, organizations, planning and development, and administration. Approaches and interventions recognizing the ethical responsibility to promote social and economic justice will be emphasized. A community field experience is required. Prerequisites: majors only and SW 360W. (Fall, Spring)

SW 370. (3) **Methods of Social Work Research.** Fundamental research principles and skills as applied in social work practice. Course content includes an exploration of quantitative and qualitative research methods employed in social work research and the review of ethical standards of scientific research and technological advances. Emphasis is on the relationship between social work research and practice. A survey of research designs, sampling procedures, data collection, data analysis, and interpretation is included in the curriculum. Participation in a community research project is required. Prerequisites: MA 147 and SW 360W. (Fall, Spring)

SW 403. (3) **Gerontology.** The primary focus is on the biological, psychological, and sociological aspects of aging with an emphasis on community services available to the aging population. Also listed as NU 403 and SO 403 but creditable only in field for which registered. (Fall, Spring)

SW 415. (3) **Ethical Decision-Making in Social Work Practice.** The primary focus is on the complexity of the ethical decision-making process in social work practice. This course explores ethical dilemmas relative to social work values, a variety of social issues, and populations-at-risk. (Summer)

SW 420. (3) **Services to Families and Children.** A study of the development and implementation of social service programs pertaining to child welfare and family systems. (Summer)

SW 432. (6) **Field Instruction in Social Work I.** Primary focus is on the integration of classroom learning with social work practice. Students are required to do a 250-hour field internship in an assigned social service agency under joint supervision of an agency field instructor and social work faculty liaison. A two-hour seminar is held weekly to evaluate the integration of the student's classroom learning with field practice experiences. Must be taken concurrently with SW 433. Student professional liability insurance is available for student members of the National Association of Social Workers and is a requirement for Field Instruction. Prerequisite: completion of all coursework. (Fall, Spring)

SW 433. (6) **Field Instruction in Social Work II.** Continuation of Social Work 432 involving an additional 250 hours of field instruction in a human service agency. Weekly seminar. Prerequisite: completion of all coursework. (Fall, Spring)

SW 491. (3) **Selected Topics.** Topic selection according to student interest and need. Designed to provide concentrated study in specific and emerging trends, policies, and social issues as they affect the human experience. (Offered on sufficient demand)

SW 499. (1-3) **Independent Study.** Open to senior majors on approval of the department head. Provides for independent study, research, or practice experiences under departmental determination, supervision, and evaluation. (Fall, Spring, Summer)

THEATRE (TH)

TH 100. (3) **Elements of Theatre.** Orientation and instruction in all aspects of a major university production, including acting, directing, design, construction, stage and house management. Course includes classroom

lectures and participation in dramatic production of campus plays. Laboratory periods by arrangement. May be repeated for credit for a maximum of 12 semester hours. (Fall, Spring)

TH 110. (1) **Stage Make-Up.** Study and practice in the techniques and materials of make-up and the relation of make-up to stage and television production. (Fall, odd-numbered years)

TH 120. (1) **Orientation to Communications and Theatre.** Description of basic academic terminology, professional opportunities, and requirements for the individual in the diverse areas of communications and theatre. Should be completed by all departmental majors as soon as possible after the major is declared. Also listed as COM 120 but creditable only in field for which registered. (Fall, Spring)

TH 200. (3) **Voice and Diction.** Practice in the development of a good speaking voice, with individual help in the correction of faulty speech habits. Also listed as COM 200 but creditable only in field for which registered. (Fall, Spring)

TH 210. (3) **Introduction to Theatre.** A comprehensive study of theatre as an art form, including the history, technical, and production components of theatrical theory and practice. Appreciation of theatre by the playgoer. (Fall, Spring)

TH 220. (3) **Acting I.** A study of acting techniques. (Fall, even-numbered years)

TH 250. (3) **Theatrical Design.** Class provides an overview and rudimentary study of the general areas of theatre design. The course includes the study of rendering and drawing of design elements as well as the materials and construction techniques required to implement designs in major productions. (Fall, even-numbered years)

TH 300. (3) **History of Film.** The historical development of the motion picture and television film as the art form from earliest stages to the present, including the technical, social, economic, and cultural factors influencing development, and using films from the periods and genres. Also listed as COM 300 but creditable only in field for which registered. (Fall, Spring)

TH 320. (3) **Movement for the Stage.** This class is designed to provide study in movement, with emphasis on dance, used in stage performance. Students will study basic ballet, jazz, musical theatre, tap, ballroom and folk dance that would be encountered in musical and non-musical theatre. Students will also be exposed to Alexander Technique and Renaissance stage movement. (Fall, odd-numbered years)

TH 330. (3) **Oral Interpretation.** Oral reading of prose, poetry, and drama; study and practice in reader's theatre. Prerequisite: COM 200 or TH 200. (Spring, odd-numbered years)

TH 340. (3) **Scene Design.** Basic principles of design including the study of styles, techniques, and methods of design. Special fee: \$30.00. (Spring, odd-numbered years)

TH 350. (3) **Lighting Design.** The study of lighting hardware and methods of lighting different events. Special fee: \$30.00. (Fall, odd-numbered years)

TH 360. (3) **Costume Design.** Study of costuming as an essential element of all theatre activity. The class will provide a study of styles, techniques, and methods of performance. Special fee: \$30.00. (Spring, even-numbered years)

TH 370. (3) **Directing I.** The nature of stage direction; a study of basic directorial concepts and their application to short scenes and plays. Prerequisites: TH 220 and TH 250; or permission of the instructor. (Fall, odd-numbered years)

TH 400. (3) **Acting II.** Continuation of TH 220. May include field trip. Prerequisite: TH 220. (Spring, even-numbered years)

TH 402. (3) **Dramatic Literature and Criticism I.** An intensive study of the works of major playwrights and critical theorists of western theatre from Greece through the Romantic period. Extensive reading of both dramatic and critical literature will be required. (Fall, odd-numbered years)

TH 405. (3) **Dramatic Literature & Criticism II.** An intensive study of the works of major playwrights and critical theorists of western theatre from the 19th and 20th centuries. Extensive reading of both dramatic and critical literature will be required. (Spring, even-numbered years)

TH 420. (1) **Portfolio Preparation.** Issues faced by graduates upon entering graduate school or the professional world. Topics include preparation of the professional portfolio, current market trends, and long-term professional prospects. Should be completed by all departmental majors in the last semester prior to graduation. Also listed as COM 420 but creditable only in field for which registered. (Fall, Spring)

TH 430. (3) **History of the Theatre I.** The development of the theatre from its beginnings through the Renaissance. (Fall, even-numbered years)

TH 440. (3) **History of the Theatre II.** A continuation of Theatre 430; the development of theatre from the Elizabethan period to the present. Recommended in sequence. (Spring, odd-numbered years)

TH 450W. (3) **Senior Seminar.** Discussion of a particular topic in the field of communications and theatre and preparation of an academic paper on a subject relevant to the topic. Also listed as COM 450 but creditable only in field for which registered. (Fall, Spring)

TH 460. (3) **Arts Management.** Study of theatre management. Emphases will include box office management, marketing strategies, funding challenges, promotion, and public relations activities specific to arts organizations. (Spring, odd-numbered years)

TH 470. (3) **Directing II.** A continuation of TH 370. The class focus is on more advanced directing practices, covering the theories and techniques of traditional and non-traditional approaches to directing. Students will be required to produce a student directed one-act play in this course. Prerequisite: TH 370 or permission of the instructor. (Spring, even-numbered years)

TH 480. (3) **Topics in Theatre.** A detailed study of a particular topic of special interest. Topics will vary but will be listed in the schedule of classes and on the students' transcripts. May include a field trip. May be repeated one time. A \$30.00 special fee may be required according to the topic. (Fall, odd-numbered years)

TH 499. (3) **Independent Study-Internship.** Independent study and research under departmental supervision or special field experience under departmental determination and evaluation. Requires written permission of the department chair prior to registration. (Fall, Spring)

WOMEN'S STUDIES (WS)

WS 100. (3) **Introduction to Women's Studies.** An interdisciplinary course that examines American women's roles from the viewpoints of the humanities, social sciences, and sciences. Various disciplinary approaches will be used to analyze how gender affects identity, social institutions, and interpersonal relationships and will also introduce students to women in other cultures. (Fall)

WS 223. (3) **Marriage and the Family.** A study of origin and evolution of the family as a social institution; the relationships of family structure to social organization; theories, functions, forms, and processes of the family in selected cultures. Also listed as SO 223 but creditable only in field for which registered. (Fall)

WS 300. (3) **Sociology of Sex Roles.** Analysis of social, psychological, and physiological approaches to the development of sex identity and sex roles; effect of differential socialization methods from infancy through adulthood; impact on both men and women of contemporary changes in sex roles. Also listed as SO 300 but creditable only in field for which registered. (Fall, even-numbered years)

WS 305. (3) **African American Women Writers.** An examination of the writings of African American women beginning with the slave narrative and ending with contemporary poetry, fiction, and drama. Also listed as EN 305 but creditable only in field for which registered. (Offered on sufficient demand)

WS 323. (3) **Women's Health.** Study of health promotion and disease prevention for women from adolescence through senescence. Students and faculty will determine topics from the following areas: reproductive anatomy and physiology, sexuality, family planning, fertility and infertility, infectious diseases, gynecological disorders, violence against women, and other issues which are determined by the class such as management of body weight, nutrition, stress, and women's roles in the workplace. Also listed as NU 323 but creditable only in field for which registered. (Offered on sufficient demand)

WS 327. (3) **Health in Childbearing.** Study of healthy childbearing. Topics will include preparation for conception, pregnancy, and the entire childbearing cycle. Students enrolled in the course may negotiate with the professor(s) to include students' specifically desired topics. Methods of teaching may include seminars, demonstrations and return demonstrations, group work, and lecture/discussions by professor(s) and guest lecturers. Also listed as NU 327 but creditable only in field for which registered. (Offered on sufficient demand)

WS 333. (3) **Images of Women in Literature.** An examination of images of women in literature drawn primarily from the works of women writers in English and American literature of the nineteenth and twentieth

centuries; an introduction to feminist criticism. Also listed as EN 333 but creditable only in field for which registered. (Spring, even-numbered years)

WS 354. (3) **Global Women's Issues.** Students will consider from a global perspective the effects of customary practices and socio-economic factors that affect women. These issues may include educational issues such as illiteracy, the education of girl children, and educational opportunities; customary practices such as arranged marriages, dowry, and circumcision; structural violence, both governmental and non-governmental; socio-economic issues such as sex traffic in women and children; and economic issues such as economic empowerment. The course will address the issues of women's rights as human rights with the goals that students will gain a cross-cultural perspective. (Spring, even-numbered years)

WS 366. (3) **History of Women in the United States.** Survey of women's experiences in the United States from the colonial period to the present that examines social, political, economic, and legal developments that shaped women's roles and status in American society. Also listed as HI 366 but creditable only in field for which registered. (Spring, even-numbered years)

WS 370. (3) **Women in American Politics.** An overview of the role of women in American politics and the role of government in defining the status of women in society. Examines the political behavior of American women and public policies which specifically impact women. Also listed as HI 370 and PS 370 but creditable only in field for which registered. (Spring, odd-numbered years)

WS 386. (3) **Gender Communication.** Examines multiple relationships between communication and gender. Emphasizes how communication creates gender and power roles and how communicative patterns reflect, sustain, and alter social conceptions of gender. Also listed as COM 386 but creditable only in field for which registered. (Fall, odd-numbered years)

WS 486W. (3) **Women, Art, and Society.** This course surveys a selective number of prominent women artists throughout history and offers an understanding of women as art makers and issues relevant to their art. Students will develop critical abilities and gain insight relative to their own work experience and specific theoretical concerns. Also listed as AR 486W but creditable only in field for which registered. (Offered on sufficient demand)

WS 495. (3) **Senior Seminar in Women's Achievement and Theory.** To be taken at or near the completion of the women's studies minor. By reading and discussing texts and by volunteering at various civic organizations, students will develop a deeper understanding of the variety of challenges facing women. Prerequisite: WS 100. (Spring)

WS 496. (3) **Special Topics in Women's Studies.** Concentrated study in specific areas of Women's Studies. Topic varies by semester. Prerequisite: WS 100. (Offered on sufficient demand)

WS 499. (3) **Independent Study.** Open to Women's Studies minors on approval of the Women's Studies coordinators. Provides for independent study or research under the coordinators' determination, supervision, and evaluation. Prerequisite: WS 100. (Fall, Spring, Summer)

ADMINISTRATION, FACULTY, AND STAFF

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Billy Don Anderson (Sheffield)	2012
John B. Cole (Florence)	2015
Ronnie G. Flippo (Washington, DC)	2012
F. Allen Long (Florence)	2007
Marc McCreary (Florence)	2007
Brenda A. Morrow (Russellville)	2003
Steven F. Pierce (Florence)	2012
Harvey Robbins (Muscle Shoals)	2015

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G. Garry Warren	<i>Dean of Information Technologies</i>
Sue J. Wilson	<i>Dean of Enrollment Management, Registrar</i>

FACULTY FOR 2004-2005

The names of the faculty as of October 1, 2004, are listed below. The date in parentheses indicates the year that person joined the faculty.

M. KAY ABBOTT (1983)	Chair of the Department of Human Environmental Sciences, Professor of Human Environmental Sciences B.S., 1970, M.S., 1972, Indiana State University; Ph.D., 1981, Oklahoma State University.
LARRY W. ADAMS (1994)	Assistant Professor of English B.S.Ed., 1989, University of North Alabama; M.A., 1992, University of Alabama in Huntsville; D.A., 2002, Middle Tennessee State University.
ROBERT L. ADLER (1994)	Associate Professor of Modern Foreign Languages B.A., 1970, City University of New York, Queens College; M.A., 1977, Ph.D., 1984, Washington University.
NOE A. AGUADO (2003)	Assistant Professor of History B.A., 1996, M.P.A., 1998, St. Mary's University; Ph.D., 2003, University of Kansas.

- PAULETTE S. ALEXANDER** (1981) Chair of the Department of Computer Information Systems, Professor of Computer Information Systems
B.S., 1969, M.A., 1970, University of Alabama; M.P.A., 1973, The University of Texas at Austin; Ph.D., 2001, The University of Memphis; C.D.P.
- MARY ANN ALLAN** (1991) Assistant Professor of Biology
B.A., 1965, University of South Florida; M.S., 1973, University of Georgia.
- ROBERT B. ALLAN** (1979) Associate Professor of Mathematics
B.A., 1970, University of South Florida; M.A., 1974, University of Georgia; Ph.D., 1979, Clemson University.
- LYNN AQUADRO** (2001) Assistant Professor of Nursing
B.S.N., 1995, University of North Alabama; M.S.N., 1996, The University of Alabama in Huntsville; CRNP.
- ROBERT W. ARMSTRONG** (2001) Chair of the Department of Management and Marketing, Professor of Marketing
B.S., 1976, M.B.A., 1985, Ph.D., 1988, Kent State University.
- J. RAFAEL ATENCIO III, LTC** (2000) Assistant Professor of Military Science
B.S., 1978, University of North Alabama.
- NANCY E. ATKINSON** (1999) Assistant Professor of English
B.A., 1983, M.Ed., 1987, M.A., 1991, Ph.D., 1997, University of Pittsburgh.
- LINDA AUSTIN** (2002) Assistant Professor of Nursing
B.S.N., 1998, University of North Alabama; M.S.N., 2000, University of Alabama in Huntsville.
- BIRDIE I. BAILEY** (1994) Dean of the College of Nursing and Allied Health, Professor of Nursing
B.S.N., 1973, M.S.N., 1975, University of Alabama at Birmingham; Ph.D., 1991, George Mason University.
- ROBERT B. BAILEY** (1999) Assistant Professor of Computer Information Systems
B.S., 1973, Auburn University; M.B.A., 1998, University of North Alabama.
- J. PAUL BAIRD** (1986) Chair of the Department of Counselor Education, Associate Professor of Counselor Education
B.A., 1970, Carson-Newman College; M.S., 1972, The University of Tennessee; Ph.D., 1979, The University of Alabama.
- J. DOUGLAS BARRETT** (1997) Professor of Economics
B.B.A., 1988, University of Montevallo; M.S., 1992, Ph.D., 1995, The University of Alabama.
- LARRY W. BATES** (1999) Assistant Professor of Psychology
B.S., 1992, University of North Alabama; M.S., 1995, Ph.D., 1998, Auburn University.
- DAVID L. BLACK** (2001) Instructor in Economics
B.S., 1980, University of North Alabama; M.S., 1996, Alabama A & M University.
- ANTHONY P. BLOSE** (1991) Chair of the Department of Physics and Earth Science, Associate Professor of Physics
B.S., 1979, Manhattan College; M.S., 1982, Ph.D., 1985, University of North Carolina.
- SUSAN C. BOBEK** (1994) Professor of Nursing
B.S.N., 1971, M.Ed., 1975, University of Illinois; M.S.N., 1979, University of Kentucky; Ph.D., 1992, University of Texas.
- JOYLAXMI S. BORAH** (1999) Assistant Professor of Social Work
B.A., 1985, University of Delhi; M.A., 1987, Tata Institute of Social Sciences; M.A., 1992, University of Guelph; Ph.D., 1999, University of Toronto.
- SANTANU BORAH** (1992) Associate Professor of Management
B.A., 1984, Hindu College, University of Delhi; M.B.A., 1988, North Dakota State University; D.B.A., 1993, Southern Illinois University at Carbondale.
- EDDY JOE BRACKIN** (1969) Professor of Mathematics
B.S., 1967, Florence State College; M.A., 1968, Ph.D., 1970, University of Alabama.
- WANDA Q. BRADFORD** (1993) Assistant Professor of Nursing, Coordinator of the RN-to-BSN Flex-Track Program
B.S.N., 1980, University of North Alabama; M.S.N., 1985, University of Alabama in Huntsville; N.D., 2004, Rush University.

- VINCENT J. BREWTON** (2001) Assistant Professor
of English A.B., 1987, Duke University; Ph.D., 2001, University of Mississippi.
- PHILLIP B. BRIDGMON** (2004) Assistant Professor of Criminal
Justice B.S., 1996, University of North Alabama; M.S.C.J., 1997, Ph.D., 2002, The University of
Alabama.
- JASON S. BRILEY** (2000) Instructor in
Mathematics B.S., 1993, M.A., 1995, The University of Alabama.
- ALYCE D. BROWN** (1973) Associate Professor of Nursing
B.S., 1956, Tuskegee Institute; M.S.N., 1975, Medical College of Georgia; Ed.D., 1993, Nova
University.
- *DARYL W. BROWN** (1999) Assistant Professor
of English B.A., 1993, University of Alabama at Birmingham; M.A., 1996, West Virginia University;
M.F.A., 2000, Indiana University.
- JOY M. BROWN** (2002) Assistant Professor of Education
B.S.Ed., 1993, University of North Alabama; M.A., 1996, Ph.D., 1998, The University of Mississippi.
- EVELYN K. BRUCE** (2002) Instructor in Biology
B.S., 1995, M.A.Ed., 1998, University of North Alabama.
- JERRI H. BULLARD** (1992) Professor of Sociology
A.B., 1977, University of North Alabama; M.S., 1979, Auburn University; Ph.D., 1983, Virginia
Polytechnic Institute and State University.
- E. DWIGHT BUNN** (1999-2001, 2003) Associate Professor of Human Environmental Sciences
B.F.A., 1972, M.S., 1981, Auburn University; M.S., 1986, University of Tennessee.
- CYNTHIA A. BURKHEAD** (2000) Instructor in English
B.A., 1994, Fontbonne College; M.A., 1997, Southern Illinois University at Edwardsville.
- JAMES D. BURNEY** (1976) Professor of Education
B.S., 1964, M.A., 1967, University of Texas at Austin; Ph.D., 1976, George Peabody College.
- DANNY E. BURTON** (1999) Assistant Professor
of History B.A., 1981, M.A., 1986, Purdue University; M.L.S., 1986, M.A., 1992, Ph.D., 2000, Indiana
University.
- AMY G. BUTLER** (1998) Instructor, Librarian
B.S., 1996, University of North Alabama; M.L.I.S., 1998, The University of Alabama.
- J. LYNNE BUTLER** (1989) Professor of English
B.A., 1965, M.A., 1966, Wichita State University; M.F.A., 1974, University of Arkansas.
- YI-MIN CAI** (1999) Associate Professor
of Music B.M., 1988, M.M., 1990, D.M.A., 1995, Manhattan School of Music.
- PEGGY CAMPBELL** (2002) Associate Professor of Education
B.S., 1971, Mississippi University for Women; M.Ed., 1975, Ed.S., 1983, Ed.D., 1990, Delta State University.
- SHARON N. CAMPBELL** (1996) Chair of the Department of Accounting and Business Law,
Professor of Accounting B.B.A., 1975, M.B.A., 1976, Delta State University; D.B.A., 1995, Louisiana Tech
University; CPA.
- WALTER M. CAMPBELL III** (1994) Professor of Accounting
B.S., 1968, M.B.A., 1976, Delta State University; Ph.D., 1982, University of North Texas; CPA.
- WAYNE F. CANIS** (1980) Professor of Geology
A.B., 1961, Colgate University; M.A., 1963, Ph.D., 1967, University of Missouri.
- PHILIP E. CARLAN** (1998) Assistant Professor of Criminal
Justice B.S., 1994, M.A., 1996, Ph.D., 1998, The University of Southern Mississippi.
- VIVIAN CARY** (1987) Assistant Professor of Nursing
B.S.N., 1977, University of North Alabama; M.S.N., 1986, University of Alabama in Huntsville.
- THOMAS W. CENTER** (1988) Assistant Professor of Computer
Science B.S., 1976, M.S., 1987, Middle Tennessee State University.

* Leave of absence, 2004-05.

- DEBBIE CHAFFIN** (1994) Associate Professor, Librarian;
Director of Educational Technology Services B.S., 1980, M.A., 1982,
University of North Alabama; M.L.S., 1984, University of Alabama.
- CHIONG-YIAO CHEN** (1992) Associate Professor
of Art B.A., 1980, National Taiwan Normal University; M.A., 1984, M.F.A., 1985, State University of
New York at Albany.
- A. GARY CHILDS** (1979) Associate Professor of
Mathematics B.S., 1967, Georgia Institute of Technology; M.S., 1971, William and Mary College;
Ph.D., 1975, University of California at Berkeley.
- NADYA CHISHTY-MUJAHID** (2002) Assistant Professor of English
B.A., 1992, Bryn Mawr College; M.A.T., 1996, Smith College; M.A., 1998, Ph.D., 2002, McGill
University.
- T. CRAIG CHRISTY** (1988) Chair of the Department of Foreign Languages,
Professor of Modern Foreign Languages B.A., 1973, M.A., 1975, University of Tennessee; M.A., 1977,
Ph.D., 1980, Princeton University.
- JOHN W. CLARK** (2003) Assistant Professor of Criminal
Justice B.S., 1996, University of Alabama at Birmingham; M.S., 1998, Ph.D., 2002, The University of
Alabama.
- JAMES C. COLLIGON** (1990) Professor of Physical Education
B.S., 1971, Murray State University; M.S., 1982, Memphis State University; Ed.D., 1985, University of
Southern Mississippi.
- J. TIMOTHY COLLINS** (1998) Assistant Professor of Political
Science B.A., 1989, Campbell University; M.A., 1992, Ph.D., 1997, University of Virginia.
- DAVID D. COPE** (1971) Assistant Professor of
Mathematics B.S., 1965, Cleveland State University; M.S., 1967, Auburn University.
- JIM F. COUCH** (1991) Professor of
Economics B.S., 1981, University of North Alabama; M.A.S., 1985, University of Alabama in Huntsville;
Ph.D., 1995, The University of Mississippi.
- CHARLOTTE W. CRAMER** (1977) Assistant Professor
of Nursing B.S.N., 1971, M.S.N., 1976, University of Alabama at Birmingham; CRNP.
- PAUL CRANDON** (2002) Assistant Professor of Public Relations
B.A., 1989, M.A., 1991, Pittsburg State University; Ph.D., 1999, The University of Tennessee.
- GERALD L. CRAWFORD** (1975) Professor of
Marketing B.S., 1961, Delta State University; M.B.A., 1964, Memphis State University; Ph.D., 1973,
University of Arkansas; CPM.
- AMY E. CREWS-OYEN** (1992) Associate Professor
of Biology B.A., 1983, M.A., 1985, Wake Forest University; Ph.D., 1990, University of Wisconsin-
Madison.
- KATHERINE W. CRISLER** (1992-93, 1998) Assistant Professor of Social
Work B.S.W., 1977, University of North Alabama; M.S.W., 1979, The University of Alabama.
- ROBERT W. DALY, JR.** (1975) Professor of Biology
B.S., 1966, B.S., 1975, Athens College; Ph.D., 1971, Auburn University.
- WENDY A. DARBY** (2001) Assistant Professor
of Nursing B.S.N., 1984, University of North Alabama; M.S.N., 1996, The University of Alabama in
Huntsville.
- LISA V. DARNELL** (1993) Instructor in Speech
Communication B.A., 1988, M.A., 1990, Auburn University.
- LELON O. DAVIDSON** (1999) Professor of
Education B.S., 1963, Jackson State University; M.S., 1967, Atlanta University; Ph.D., 1991,
University of Mississippi.
- ANDREW C. DAVIS, MAJ** (2003) Assistant Professor of Military Science
B.A., 1995, Auburn University.
- ERNESTINE B. DAVIS** (1980) Professor of Nursing
B.S., 1965, Tuskegee Institute; M.S.N., 1972, Medical College of Georgia; Ed.D., 1979, University of
Alabama.
- RONALD D. DAVIS, JR.** (2003) Assistant Professor of Computer Information

Systems B.S., 1995, Georgia Institute of Technology; M.B.A., 1999, LaGrange College.

- PAUL G. DAVISON** (1993) Associate Professor of Biology
B.S., 1985, North Carolina State University; M.A., 1987, Appalachian State University; Ph.D., 1993, University of Tennessee.
- ANN DILLON** (2003) Associate Professor of Special Education
B.S., 1972, M.A., 1974, Ed.D., 1983, The University of Alabama.
- DIANNE T. DODSON** (2004) Instructor in English
B.S., 1979, University of Montevallo; M.A., 1982, University of Alabama; M.A., 2001, University of North Alabama.
- VALERIY DOLMATOV** (2002) Assistant Professor of Physics
B.S., 1977, Ph.D., 1985, Tashkent State University.
- RUTH T. DUMAS** (1996) Associate Professor of Early Childhood Education
B.A., 1968, Winthrop College; M.A.Ed., 1985, Western Carolina University; Ph.D., 1995, University of Alabama at Birmingham.
- S. SUZANNE DUVALL-ZURINSKY** (1997) Assistant Professor
of Art B.F.A., 1983, Mississippi University for Women; M.A., 1985, Ph.D., 1995, University of Mississippi.
- MARK A. EDWARDS** (2004) Dean of the College of Education, Professor of Education
B.S.Ed., 1976, University of Tennessee; M.A., 1979, Tennessee Technological University; Ed.D., 1991, Vanderbilt University.
- BRENT A. ELLIOTT** (2001) Assistant Professor of Earth
Science B.A., 1995, Beloit College; M.S., 1997, Ph.D., 2001, University of Helsinki.
- EDDIE L. ELSEY, JR.** (2002) Instructor in Music
B.M.Ed., 1999, Northwestern State University; M.M., 2001, University of Southern Mississippi.
- MICHAEL D. FENNELL, LTC** (2004) Chair of the Department of Military Science, Professor of Military
Science B.A., 1985, University of Kentucky; M.E., 1995, Xavier University.
- PAMELA J. FERNSTROM** (1991) Chair of the Department of Elementary Education,
Professor of Special Education
B.A.E., 1976, University of Mississippi; M.S., 1977, Ph.D., 1992, George Peabody College for Teachers of Vanderbilt University.
- JERRY W. FERRY** (1991) Associate Professor of Accounting
B.S., 1969, Northwestern University; M.B.A., 1971, Columbia University; Ph.D., 1986, University of Arkansas.
- CRESCENTE E. FIGUEROA** (1993) Professor of Industrial Hygiene,
Director of the OEHL B.S., 1977, Universidad Catolica, Chile;
M.S., 1988, Ph.D., 1993, Texas A & M University.
- ALAN FLOWERS** (1999) Instructor in Music
B.M., 1959, M.M., 1961, The University of Alabama.
- A. EDWARD FOOTE** (1980) Associate Professor of Speech Communication and
Radio-Television-Film
B.S., 1963, Florence State Teachers College; M.S., 1968, University of Southern Mississippi; Ph.D., 1970, Ohio State University.
- JUDITH B. FORD** (1996) Instructor, Counselor, Kilby
School B.A., 1969, The University of Alabama; M.A., 1975, University of North Alabama.
- C. WILLIAM FOSTER** (1968) Professor of English
B.S., 1961, University of Chattanooga; M.A., 1963, East Tennessee State University; Ph.D., 1968, University of Alabama.
- ROBERT A. GARFRERICK** (1998) Associate Professor of Music, Director of the Entertainment
Industry Center, Eminent Scholar in Entertainment Industry B.M.,
1979, The University of Alabama; M.A., 1991, Middle Tennessee State University; Ed.D., 1999, Tennessee State University.
- ANITA M. GARNER** (1991) Assistant Professor
of English B.S.E., 1974, M.F.A., 1978, University of Alabama.
- GREGORY G. GASTON** (2002) Associate Professor of
Geography B.S., 1981, Wilmington College; M.S., 1989, Ph.D., 1993, Oregon State University.

- KERRY P. GATLIN** (1980-84, 1987)Dean of the College of Business,
Professor of Management
B.B.A., 1969, Southern State College; M.B.A., 1974, Samford University; Ph.D., 1982, University of
Oklahoma.
- ELEANOR P. GAUNDER** (1980) Professor of English
B.A., 1964, Denison University; M.A., 1965, Stanford University; Ph.D., 1987, Indiana University of
Pennsylvania.
- ROBERT G. GAUNDER** (1975) Professor of Chemistry
B.S., 1964, Denison University; Ph.D., 1969, Stanford University.
- LORRAINE GLASSCOCK** (1978)Associate Professor of Accounting
B.S., 1972, Auburn University; M.B.A., 1977, University of North Alabama; C.M.A.
- BARBRA GOODNITE** (1993) Associate Professor of Elementary Education
B.S., 1957, M.S., 1984, Ed.D., 1989, Mississippi State University.
- BRUCE L. GORDON** (1986) Associate Professor of Finance
B.S., 1983, Jacksonville State University; M.A., 1986, University of Alabama; Ph.D., 1993, University of
North Texas.
- CAROL L. GOSSETT** (1999) Assistant Professor of Computer Information
Systems B.S., 1980, M.B.A., 1994, University of North Alabama.
- MICHELLE N. GRAHAM** (2002) Instructor in Nursing
B.S.N., 1997, University of North Alabama; M.S.N., 2001, The University of Alabama.
- ANGELA C. GREEN** (2001) Assistant Professor of
Theatre B.S., 1994, Troy State University; M.F.A., 2000, The University of North Carolina at Greensboro.
- THOMAS M. HAGGERTY** (1986) Professor of Biology
B.A., 1974, University of North Carolina at Greensboro; M.A., 1978, Appalachian State University; Ph.D.,
1986, University of Arkansas.
- WILLIAM A. HAILEY** (1999) Professor of Computer Information Systems
B.B.A., 1965, University of Mississippi; M.B.A., 1971, Loyola University of Chicago; D.B.A., 1978,
University of Kentucky.
- EMMA HALEY** (2002) Assistant Professor, Supervising
Teacher B.S., 1979, B.S.Ed., 1996, M.A.Ed., 1998, Ed.S., 1999, University of North Alabama.
- MICHAEL D. HALL** (1987) Assistant Professor of Health and Physical
Education B.S., 1983, M.S., 1984, D.A., 1999, Middle Tennessee State University.
- DANIEL E. HALLOCK** (2004)Associate Professor of Management
B.B.A., 1978, M.A., 1982, University of Texas at Austin; M.B.A., 1986, Louisiana Tech University; D.B.A.,
1992, Memphis State University; CMA; CPA.
- VAGN K. HANSEN** (2004)Dean of the College of Arts and Sciences,
Professor of Political Science B.A., 1966, Tulane University; M.A.,
1970, Ph.D., 1971, University of Virginia.
- MYRA E. HARSCHIED** (1971) Associate Professor, Librarian
A.B., 1962, Florence State College; M.S.L.S., 1967, University of North Carolina at Chapel Hill.
- DANIEL J. HEIMMERMANN** (1994) Chair of the Department of History and Political Science, Associate
Professor of History B.A., 1987, University of Wisconsin-Oshkosh;
M.A., 1989, Ph.D., 1994, Marquette University.
- JEAN F. HENDERSON** (1984) Assistant Professor of
Mathematics B.A., 1973, Florence State University; M.A., 1977, University of Alabama in Huntsville.
- FREDO O. HENSLEY** (1970)Professor of Art
B.F.A., 1968, Kansas State College; M.F.A., 1970, Tulane University.
- MARGARET A. HOEKENGA** (1999) Instructor,
Supervising Teacher B.S., 1977, The University of Alabama; M.Ed., 1988, University of Mississippi.
- A. PRISCILLA HOLLAND** (1988, 1991) Director of Research, Planning, and Institutional
Effectiveness, Assistant Professor of Geography B.S., 1983, M.A.Ed., 1987, University of North Alabama;
Ed.D., 1997, The University of Alabama.
- PAUL J. HOLLEY** (1981)Assistant Professor of Accounting
B.S., 1967, Florence State College; M.B.A., 1969, Memphis State University; C.P.A.

- YINGPING HUANG** (2004) Assistant Professor of Computer Information Systems B.S., 1995, University of Science and Technology of China; M.S., 2001, M.S., 2003, University of Notre Dame.
- BILL M. HUDDLESTON** (1984-86, 1988) Chair of the Department of Communications and Theatre, Professor of Speech Communication B.S., 1974, Mississippi State University; M.A., 1976, University of Tennessee; Ph.D., 1985, University of Missouri-Columbia.
- RICHARD A. HUDIBURG** (1983) Professor of Psychology B.A., 1972, Sonoma State University; M.A., 1975, Ph.D., 1979, Texas Christian University.
- KATRINA J. HUNTER** (2004) Assistant Professor of Education B.S., 1990, Jacksonville State University; M.A., 1992, Ed.S., 1996, Ed.D., 2002, University of Alabama.
- B. LEE HURREN** (2003) Associate Professor of Education B.A., 1988, Southern Utah University; M.Ed., 1992, Ph.D., 2001, University of Nevada, Reno.
- ERNEST D. JOBE** (1999) Professor of Management, Director of the College of Business Development Programs B.S., 1966, M.B.A., 1969, D.B.A., 1972, Mississippi State University; C.P.A.
- JEAN L. JOHNSON** (1967) Professor of English B.S., 1960, M.A., 1961, University of Alabama; Ph.D., 1991, Indiana University of Pennsylvania.
- ROBERT E. JOHNSON** (1970) Professor of Education B.A., 1960, M.Ed., 1961, Adv. M.Ed., 1964, Ed.D., 1971, University of Mississippi.
- LLOYD E. JONES III** (2000) Assistant Professor of Music, Director of Bands B.F.A., 1992, B.M.M.Ed., 1996, M.A.Ed., 1997, University of North Alabama.
- CHARLES E. JOUBERT** (1972) Chair of the Department of Psychology, Professor of Psychology B.S., 1966, Tulane University; M.A., 1968, Ph.D., 1969, University of Alabama.
- LINDA KECKLEY** (1985) Assistant Professor, Supervising Teacher B.A., 1974, M.A., 1982, University of North Alabama.
- THOMAS M. KERSEN** (2004) Assistant Professor of Sociology B.A., 1994, Arkansas Tech University; M.S., 1996, University of Central Arkansas; Ph.D., 2003, Mississippi State University.
- LISA D. KEYS-MATHEWS** (1992) Assistant Professor of Geography, Director of the Geographic Research Center B.A., 1985, University of North Alabama; M.S., 1987, University of South Carolina.
- MALIK A. KHAN** (2003) Assistant Professor of Business Law B.A., 1988, University of Florida; J.D., 1996, University of North Carolina at Chapel Hill.
- BRETT A. KING** (1999) Assistant Professor of Finance B.S., 1990, M.A., 1995, Ph.D., 2000, The University of Alabama.
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