Western Carolina University is committed to equality of educational opportunity and does not discriminate against applicants, students, or employees based on race, color, national origin, religion, sex, age, sexual orientation, or disability. Moreover, Western Carolina University is open to people of all races and actively seeks to promote racial integration by recruiting and enrolling a larger number of African-American and other minority students.

For information concerning affirmative action policies and procedures, contact the Compliance Office, 460 H F Robinson Administration Building, Western Carolina University, Cullowhee, North Carolina 28723, telephone (704) 227-7147.

The General Catalog Issue is one of two issues of The Record published by Western Carolina University giving full details of academic programs and regulations. The other is the Graduate Catalog Issue.

Copies of the appropriate issues are made available to all students registered at the university, high school principals and guidance counselors, college and university libraries, and all public and private high schools and institutions of higher learning in North Carolina. Additional copies are available for $2 each from the Office of Admissions, Western Carolina University, Cullowhee, North Carolina 28723, telephone (704) 227-7317. Eighteen thousand copies of this public document were printed at a cost of $15,318 or $85 per copy.
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# Academic Calendar

## Fall Semester 1994

- **August 18**, Thursday, 3:00-6:00 pm
- **August 21**, Sunday, 8:00 am
- **August 21**, Sunday, 12:00 noon
- **August 22**, Monday, 9:00 a.m. - 4:00 p.m.
- **August 22**, Monday, 4:30 p.m.
- **August 22**, Monday, 6:00 p.m.
- **August 23-26**, Tuesday-Friday
- **September 2-5**, Friday, 5:00 p.m. - Monday
- **September 6**, Tuesday, 8:00 a.m.
- **October 12**, Wednesday
- **October 15-18**, Saturday, 5:00 p.m. - Tuesday
- **October 19**, Wednesday, 8:00 a.m.
- **October 24**, Monday
- **October 31-November 18**, Monday-Friday
- **November 23-27**, Wednesday, 2:00 p.m. - Sunday
- **November 28**, Monday, 8:00 a.m.
- **December 6-8**, Tuesday
- **December 9-14**, Wednesday
- **December 15**, Thursday

### Important Dates
- **Registration in Asheville**
- **Residence halls open for students attending orientation**
- **Residence halls open for all students**
- **Orientation for new freshmen and transfer students in Cullowhee**
- **Registration in Cullowhee for students attending orientation**
- **Classes in Asheville begin**
- **Freshman Convocation**
- **Evening classes in Cullowhee begin**
- **Day classes in Cullowhee begin**
- **Late registration and schedule changes in Cullowhee**
- **Labor Day holiday**
- **Classes resume**
- **Last day to drop a course with a W**
- **Fall holiday**
- **Classes resume**
- **Last day for students completing programs in May to file degree application in the deans' offices**
- **Academic advising for spring semester and early registration in Cullowhee**
- **Thanksgiving holiday**
- **Classes resume**
- **Last day of classes**
- **Reading day**
- **Final examinations**
- **Christmas holiday begins**

## Spring Semester 1995

- **January 5**, Thursday, 3:00-6:00 p.m.
- **January 8**, Sunday
- **January 9**, Monday
- **January 9**, Monday, 9:00 a.m. - 4:00 p.m.
- **January 10**, Tuesday
- **January 10-13**, Tuesday-Friday
- **January 16**, Monday
- **March 1**, Wednesday
- **March 4-March 12**, Saturday, 5:00 p.m. - Sunday
- **March 13**, Monday, 8:00 a.m.

### Important Dates
- **Registration in Asheville**
- **Residence halls open**
- **Orientation for new students**
- **Classes in Asheville begin**
- **Registration in Cullowhee for new, continuing, and readmitted students**
- **Evening classes in Cullowhee begin**
- **Day classes in Cullowhee begin**
- **Late registration and schedule changes in Cullowhee**
- **Martin Luther King’s Birthday holiday**
- **Last day to drop a course with a W**
- **Spring holiday**
- **Classes resume**

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*The calendar applicable to graduate students may be found in the Graduate School Issue of The Record*

1 A late registration fee of $10.00 will be charged
<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>March 20, Monday</strong></td>
<td>Deadline for students completing programs in summer or fall to file degree applications in deans’ offices</td>
</tr>
<tr>
<td><strong>March 27-April 13</strong></td>
<td>Academic advising for summer and fall semester and early registration in Cullowhee</td>
</tr>
<tr>
<td><strong>April 14-16, Friday, 8 00 a.m -Sunday</strong></td>
<td>Easter holiday</td>
</tr>
<tr>
<td><strong>April 17, Monday, 8 00 a.m</strong></td>
<td>Classes resume</td>
</tr>
<tr>
<td><strong>April 28, Friday</strong></td>
<td>Last day of classes</td>
</tr>
<tr>
<td><strong>April 29-May 5, Saturday-Friday</strong></td>
<td>Final examinations</td>
</tr>
<tr>
<td><strong>May 6, Saturday</strong></td>
<td>Commencement</td>
</tr>
</tbody>
</table>

**Summer Term 1995 (Subject to Change)**

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>May 30, Tuesday-August 4, Friday</strong></td>
<td>Summer session (ten-week session)</td>
</tr>
<tr>
<td><strong>May 30, Tuesday-July 3, Monday</strong></td>
<td>First summer session</td>
</tr>
<tr>
<td><strong>July 4, Tuesday-August 4, Friday</strong></td>
<td>Second summer session</td>
</tr>
<tr>
<td><strong>August 4, Friday</strong></td>
<td>Commencement</td>
</tr>
</tbody>
</table>

**Fall Semester 1995 (Subject to Change)**

<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>August 17, Thursday, 3 00-6 00 p.m</strong></td>
<td>Registration in Asheville</td>
</tr>
<tr>
<td><strong>August 20, Sunday, 8 00 a.m</strong></td>
<td>Residence halls open for students attending orientation</td>
</tr>
<tr>
<td><strong>August 20, Sunday, 12 00 noon</strong></td>
<td>Residence halls open for all students, Orientation for new freshmen and transfer students in Cullowhee</td>
</tr>
<tr>
<td><strong>August 21, Monday, 9 00 a.m - 4 00 p.m</strong></td>
<td>Registration in Cullowhee for students attending orientation</td>
</tr>
<tr>
<td><strong>August 21, Monday</strong></td>
<td>Classes in Asheville begin</td>
</tr>
<tr>
<td><strong>August 21, Monday, 4 30 p.m</strong></td>
<td>Freshman Convocation</td>
</tr>
<tr>
<td><strong>August 21, Monday, 6 00 p.m</strong></td>
<td>Evening classes in Cullowhee begin</td>
</tr>
<tr>
<td><strong>August 22, Tuesday</strong></td>
<td>Day classes in Cullowhee begin</td>
</tr>
<tr>
<td><strong>August 22-25, Tuesday-Friday</strong></td>
<td>Late registration and schedule changes in Cullowhee</td>
</tr>
<tr>
<td><strong>September 1-4, Friday, 5 00 p.m -Monday</strong></td>
<td>Labor Day holiday</td>
</tr>
<tr>
<td><strong>September 5, Tuesday, 8 00 a.m</strong></td>
<td>Classes resume</td>
</tr>
<tr>
<td><strong>October 7-10, Saturday, 5 00 p.m -Tuesday</strong></td>
<td>Fall holiday</td>
</tr>
<tr>
<td><strong>October 11, Wednesday, 8 00 a.m</strong></td>
<td>Classes resume</td>
</tr>
<tr>
<td><strong>October 13, Friday</strong></td>
<td>Last day to drop a course with a W</td>
</tr>
<tr>
<td><strong>October 23, Monday</strong></td>
<td>Last day for students completing programs in May to file degree application in the deans’ offices</td>
</tr>
<tr>
<td><strong>October 23- November 10, Monday-Friday</strong></td>
<td>Academic advising for spring semester and early registration in Cullowhee</td>
</tr>
<tr>
<td><strong>November 22-26, Wednesday, 2 00 p.m -Sunday</strong></td>
<td>Thanksgiving holiday</td>
</tr>
<tr>
<td><strong>November 27, Monday, 8 00 a.m</strong></td>
<td>Classes resume</td>
</tr>
<tr>
<td><strong>December 5, Tuesday</strong></td>
<td>Last day of classes</td>
</tr>
<tr>
<td><strong>December 6, Wednesday</strong></td>
<td>Reading day</td>
</tr>
<tr>
<td><strong>December 7-13, Thursday-Wednesday</strong></td>
<td>Final examinations</td>
</tr>
<tr>
<td><strong>December 14, Thursday</strong></td>
<td>Christmas holiday begins</td>
</tr>
</tbody>
</table>
Spring Semester 1996 (Subject to Change)

January 4, Thursday, 3 00-6 00 p m ~ Registration in Asheville
January 7, Sunday
January 8, Monday Residence halls open,
January 8, Monday, 9 00 a m - 4 00 p m Orientation for new students
Classes in Asheville begin 1 Registration in Cullowhee for new, continuing, and readmitted students
January 8, Monday, 6 00 p m Evening classes in Cullowhee begin
January 9, Tuesday Day classes in Cullowhee begin
January 9-12, Tuesday-Friday Late registration and schedule changes in Cullowhee 1
January 15, Monday Martin Luther King, Jr. Birthday holiday
January 8, Monday, 9 00am-4 00pm __ Registration in Cullowhee for new, continuing, and readmitted students
January 8, Monday, 6 00 pm Evening classes in Cullowhee begin
January 9, Tuesday Day classes in Cullowhee begin
January 9-12, Tuesday-Friday Late registration and schedule changes in Cullowhee 1
January 15, Monday Martin Luther King, Jr. Birthday holiday
February 28, Wednesday Last day to drop a course with a W
March 9-17 Spring holiday
March 18, Monday, 8 00 a m Classes resume
March 18, Monday, 9 00 a m Deadline for students completing programs in summer or fall to file degree applications in deans' offices
March 18, Monday, 10 00 a m Academic advising for summer and fall semester and early registration in Cullowhee
March 9-17 Easter holiday
March 18, Monday, 9 00 a m Classes resume
March 18, Monday, 10 00 a m Last day of classes
March 18-April 4 Final examinations
April 5-7, Friday, 8 00 a m - Sunday Commencement
April 8, Monday, 8 00 a m~ Classes resume
April 26, Friday Last day of classes
April 27-May 3, Saturday-Friday Final examinations
May 4, Saturday

TELEPHONE NUMBERS

Area Code 704

Academic Advising 227-7170
Academic Affairs Office 227-7495
Admissions, Readmissions 227-7317
Book Store 227-7345
Employment, Student 227-7170
Fees 227-7334
Financial Aid, Loans, Scholarships 227-7290
Fraternities, Sororities, Clubs 227-7234
General Student Information 227-7234
Housing 227-7303
International Students 227-7234
Orientation 227-7234
Registrar, Student Records, Transcripts 227-7232
Schools
College of Applied Sciences 227-7272
College of Arts and Sciences 227-7646
College of Business 227-7401
College of Education and Psychology 227-7311
Graduate School 227-7398
Veterans Affairs 227-7234
THE UNIVERSITY

Western Carolina University is one of the sixteen public senior institutions of the University of North Carolina. It is a comprehensive university, authorized to offer programs of study at the baccalaureate, master's, and intermediate levels. The university comprises four undergraduate colleges—Applied Sciences, Arts and Sciences, Business, and Education and Psychology—and a Graduate School. Statwide in scope, the university has a special sense of responsibility to the western region of North Carolina.

Role and Mission

The fundamental role of Western Carolina University is to develop a community of scholarship in which students, faculty members, administrators, and staff members learn and apply the products of learning. Teaching, service, and research missions are built upon this foundation of scholarship.

The most important activity at Western Carolina University is student-teacher involvement in learning. Students with a wide range of academic abilities and aptitudes may enter the university, but those who are graduated are expected to be knowledgeable, competent in critical thinking and communication skills, aware of ethical and aesthetic values, and productive in employment and general life settings.

Scholarly service and research are essential to the goals of the university. Service is encouraged that extends the benefits of university scholarship to regional, state, national, and international constituencies. Research and creative activity are encouraged that provide opportunities for faculty members and students to engage in the exploration and development of knowledge and that support student-teacher interaction.

Principal Functions

The principal function of the university is to provide an academic curriculum appropriate to its role and mission, essentially for the benefit of the people of North Carolina. This curriculum primarily is offered on the Cullowhee campus. Graduate and undergraduate programs are extended to students through centers in Asheville and in Cherokee. Credit and noncredit courses also are sponsored in a variety of locations by the Division of Continuing Education.

Functions of specialized university centers and services include technical and research assistance in the development of human and natural resources in the southern Appalachian region of the United States, archival and museum activities to record and interpret the history of western North Carolina and the southern Appalachian region and to help preserve their cultural artifacts, overseas educational exchanges and technical assistance projects, especially in less developed nations, summer programs for gifted and talented pre-college students, diagnostic and treatment programs in reading, speech and hearing, and childhood developmental evaluation, primarily for residents of western North Carolina, an array of activities dedicated to improving the quality of elementary and secondary school instruction and management, and cultural enrichment of the university and regional communities through the fine and performing arts.

Location

Western Carolina University is located in the scenic Appalachian mountain ranges at Cullowhee, North Carolina. The university consists of the main campus in Cullowhee and resident credit centers in Asheville and Cherokee. A faculty of about 325 serves a student body of almost 6,600 in resident-credit and extension classes.
The Cullowhee campus is in a valley between the Blue Ridge and Great Smoky mountains, fifty-two miles west of Asheville and seven miles south of Sylva on North Carolina Highway 107. The location at the southern end of Cullowhee valley in the heart of the Tuckasegee River basin gives it an unusually attractive setting. There is airline service to Asheville. The university provides a bus service between Sylva and Cullowhee for students. Private taxi service also is available.

The central campus consists of about 400 acres, including beautifully wooded areas and modern academic, student residence, recreation, and athletic facilities. The Blue Ridge Parkway, Great Smoky Mountains National Park, Cherokee Indian Reservation, Fontana Lake, and numerous resort areas offer golf, skiing, fishing, hunting, hiking, water sports, and other recreational opportunities nearby.

Governance

Western Carolina University, a constituent institution of the University of North Carolina, functions under the jurisdiction of the Board of Governors of the University of North Carolina and the Board of Trustees of Western Carolina University. Policies of the Board of Governors are administered by the president and the General Administration of the University of North Carolina. The Board of Trustees receives its authority by delegation from the Board of Governors.

The chancellor is the chief administrative officer of the university. The Faculty Senate, the principal policy-recommending body of the faculty, operates under the provisions of a faculty constitution and bylaws.

Accreditation

Western Carolina University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools. In addition to this institutional accreditation, other special accreditation by appropriate agencies includes:

- Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (Manufacturing Engineering Technology and Electronic Engineering Technology)
- American Assembly of Collegiate Schools of Business
- American Dietetic Association (Approved Plan V Program)
- American Home Economics Association
- American Speech-Language-Hearing Association
- Committee on Allied Health Education and Accreditation of the American Medical Association in cooperation with the American Health Information Management Association, the National Accreditation Agency for Clinical Laboratory Sciences, and the Joint Review Committee on Educational Programs for the EMT-Paramedic
- Council for Accreditation of Counseling and Related Educational Programs
- Council on Social Work Education
- National Accreditation Council for Environmental Health Science and Protection
- National Association of Schools of Music
- National Council for Accreditation of Teacher Education
- National League for Nursing
- North Carolina Board of Nursing
- North Carolina Department of Public Instruction
- Project Management Institute

The university is a member of appropriate state and national associations and organizations to which its professional programs are related. These include but are not limited to:

- Academy of Criminal Justice Sciences
- American Association of Colleges for Teacher Education
- American Association of Colleges of Nursing
- American Association of Higher Education
- American Association of State Colleges and Universities
A varied academic program is offered by the university’s four colleges. Through the Graduate School, the university offers graduate degree programs in numerous majors: accounting, business administration, criminal justice, education, engineering technology, health information management, industrial technology, interior design, manufacturing engineering technology, nursing, and nutrition and dietetics. The programs leading to these degrees are listed in the Graduate School section of this catalog, and complete information about them is available in the Graduate Catalog Issue of The Record.

The four undergraduate colleges of the university offer programs leading to the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Business Administration, and Bachelor of Science in Education.

The College of Applied Sciences: Bachelor of Science with majors in child development and family relations, clinical laboratory sciences, clothing, textiles, and merchandising, criminal justice, electronics engineering technology, emergency medical care, environmental health, general home economics, health information management, health services management and supervision, industrial distribution, industrial technology, interior design, manufacturing engineering technology, nursing, and nutrition and dietetics.

The College of Arts and Sciences: Bachelor of Arts with majors in anthropology, art, chemistry, English, French, geology, German, history, music, political science, radio and television, social sciences, sociology, Spanish, speech and theatre arts, and special studies. The Bachelor of Arts with a major in economics, offered in collaboration with the College of Business, is on inactive status.

Bachelor of Fine Arts with majors in art and theatre.

Bachelor of Science with majors in anthropology, biology, chemistry, computer science, geography, geography/planning, geology, history, industrial chemistry, mathematics, natural resources management, physics, political science, radio and television, social sciences, social work, sociology, and special studies.

The College of Business: Bachelor of Science in business administration with majors in accounting, business administration and law, computer information systems, economics, finance, management, marketing, office administration, and bachelor of science with a major in international business.
The College of Education and Psychology Bachelor of Science in Education with majors in Communication Disorders, Elementary Education, General Special Education, Middle Grades Education, and Physical Education

In collaboration with the College of Arts and Sciences Bachelor of Science in Education with majors in Art, Biology, English, French, German, Mathematics, Music, Science, Social Sciences, and Spanish

In collaboration with the College of Business Bachelor of Science in Education with a major in Business

In collaboration with the College of Applied Sciences Bachelor of Science in Education with a major in Home Economics

Bachelor of Science with majors in Psychology, Sport Management, Therapeutic Recreation, and Parks and Recreation Management

The Academic Calendar

Western Carolina University operates on an academic year of two semesters of 15 weeks each. Additionally, a full array of programs and activities is offered during the summer term. Day classes are scheduled Monday through Friday. Night and Saturday classes, usually meeting once a week, are available in Cullowhee, Asheville, Cherokee, and various other locations. Commencement exercises are held at the end of the spring semester and the second summer session.

Western Carolina University Programs in Asheville

Western Carolina University offers, on the campus of the University of North Carolina at Asheville, a broad range of instruction at the advanced undergraduate and graduate levels, particularly in the areas of education, business administration, human resource development, nursing and health sciences, public affairs, engineering and industrial technology, and criminal justice. The programs provided, intended principally for the residents of Buncombe and surrounding counties, are attended by students who commute from considerable distances throughout the region.

All of the course requirements for master's degrees in business administration, project management, elementary education, middle-grades education, health sciences, reading, counseling, human resource development, mathematics education, general special education (with concentrations in behavioral disorders, learning disabilities, and mental retardation), public affairs, social science education, school administration, and school supervision are offered by the University. The Education Specialist degree is offered in selected areas, including options which lead to recommendation for advanced certificates for elementary educators, middle-grades educators, principals, superintendents, general supervisors, and curriculum specialists in a number of fields in secondary education. The Certificate of Advanced Study is available in school counseling. Two-year college programs are available at the master's and Ed S levels.

Some of the courses for master's degrees in biology, English, history, home economics with an option for preprofessional practice in dietetics, technology, mathematics, music education, physical education, psychology, and science education are also available. WCU programs in Asheville are affiliated with the Asheville Graduate Center.

Most of the course requirements for the bachelor of science degree in criminal justice and health services management and supervision are offered through the WCU Programs in Asheville. Through interinstitutional agreements, a program is available to students in Asheville leading to the Bachelor of Science in Nursing degree from Western Carolina University. Students enrolled in this program must complete their junior year of study on the Cullowhee campus. Also, through an interinstitutional partnership with Asheville-Buncombe Technical Community College, most of the course requirements for a Bachelor of
Science Degree in electronics engineering technology, industrial technology, and manufacturing engineering technology are offered.

Western Carolina University administers its programs in Asheville through a staff whose offices are located in Room 120, Karpen Hall, on the campus of the University of North Carolina at Asheville. Additional information is available from Western Carolina University Programs in Asheville, One University Heights/UNCA, Asheville, North Carolina 28804-3299, or by telephoning (704) 251-6642, 251-6643, or 227-7423.

Western Carolina University Center in Cherokee

The Western Carolina University Center in Cherokee was established in 1975 in cooperation with the tribal government of the Eastern Band of the Cherokee Indians. The program at this resident-credit center serves Cherokee and the surrounding communities and is available to all of the people of the region. Offices of the center are located in Cherokee, across from the Cherokee High School, and in the administration building at Cullowhee.

Hunter Library

The library contains more than 420,000 books and bound periodical volumes, and one million units of microform. Approximately 2,000 serial subscriptions are received, including regional, national, and international newspapers. The annual addition rate of new materials is more than 15,000 items.

As a selective federal depository, the library holds more than 166,000 government documents and adds important items monthly. Of special interest is the North Carolina Documents Collection which houses publications generated by state government.

Hunter Library is also a map depository for the United States Geological Survey and the Defense Mapping Agency. The map room contains more than 106,000 sheet maps as well as atlases, satellite imagery, and aerial photographs.

Local and regional history is served by the Department of Special Collections which includes the university archives and manuscripts and rare books pertaining to the Eastern Band of the Cherokee Indians, western North Carolina, southern Appalachia, wilderness conservation, and the behavioral characteristics of spiders.

As a service for professional education programs, a curriculum library is maintained that contains state-adopted textbooks for North Carolina and curriculum guides from school systems in North Carolina and other states.

Hunter Library shares a computer catalog system with the libraries at Appalachian State University and University of North Carolina in Asheville. Faculty, students, and staff may borrow materials from those libraries and generally receive them within seventy-two hours.

The library also provides computer access to InfoTrac, ERIC, PsychLIT, GPO, and Compact Disclosure. DIALOG searches are available as well.

Hunter Library provides library materials in UNCA's Ramsey Library for Western Carolina University courses and programs offered on the Asheville campus.

Faculty Center for Teaching Excellence. This center provides services designed to assist all faculty on campus in achieving and maintaining excellence in their teaching. Through faculty workshops, seminars, luncheons, and similar activities, the center fosters a campus climate where teaching is highly valued and excellence in teaching is the norm. Services also include a teaching analysis program, a faculty exchange program, and a lending library of professional literature on college teaching.

University Writing Center. A staff of faculty, graduate assistants, and peer tutors is available to assist students in developing skills for preparing essays, term papers, creative writing projects, articles for publication, and other purposes. Faculty members are encouraged to refer students to the center for general development of writing skills.
Beginning with the writer's initial ideas, tutors can help with brainstorming, prewriting, drafting, revising, editing, and proofreading. By offering the writer workable strategies, the tutors can move the student toward self-sufficiency. In addition to the one-on-one tutorial help, the center regularly offers mini-courses or workshops tailored to specific problems exhibited by student writers and specific courses that emphasize writing.

**Mathematics Tutoring Resource Center.** A student peer tutoring program, staffed by undergraduate and graduate mathematics students, is available on a drop-in and individual appointment basis. Tutoring is offered in all lower division undergraduate mathematics courses and beginning computer science courses. Tutoring experience is provided as a practicum for students majoring in mathematics education. The Resource Center has a small library of supplementary materials, including textbooks, computer-assisted instruction materials, and a few current periodicals in mathematics and computer science.

**Service and Research Centers**

Faculty members and students participate in a wide range of service and research activity. The university's service centers add impetus to the programs of the colleges and departments and provide significant assistance to the region in which the university is located.

**Center for Improving Mountain Living** The Center for Improving Mountain Living (CIML) is a major technical assistance and service unit of Western Carolina University that extends the resources of the university beyond the campus. CIML is a recognized source of knowledge about western North Carolina, with special emphasis on rural economic and social development. Through counseling and technical assistance, planning and research support, data collection and analysis, specialized training, conferences, and workshops, CIML serves as a catalyst for economic and social development in western North Carolina, the state, and the world. The center provides assistance for town, county, and state government, business and industry, educational and social agencies, chambers of commerce, citizens groups, civic clubs, voluntary organizations, and other special-purpose groups. CIML serves as the home for Western North Carolina Tomorrow (WNCT), a regional citizen leadership organization, the regional Small Business and Technology Development Center, an Economic Development Administration University Center, and the Center for PVO/University Collaboration in Development, an association of more than 30 universities and private voluntary organizations cooperating in development activities throughout the world. CIML encourages faculty and student collaboration in its programs and comprises five divisions: Human Resources, Economic Development, Natural Resources, Administrative Services, and WNCT.

**Office of International Development** The Office of International Development promotes international linkages for Western Carolina University. Particular emphasis is given to trade relations between regional businesses and other countries. Working closely with the Economic Development Division of the Center for Improving Mountain Living and the North Carolina World Trade Association, the office provides support and technical assistance in these special linkages.

**Mountain Heritage Center** The center collects, interprets, and disseminates knowledge about the southern Appalachian region and its people. It conducts research and collects and displays artifacts. It interprets the region's natural and cultural heritage through publications, exhibitions, and demonstrations. The center works with public schools in preparing programs for educational enrichment and provides an educational experience for university students through internships. Its essential objective is to promote public awareness of the rich traditions of the mountains.

**Fine Arts Center** The Fine Arts Center promotes and coordinates those fine arts programs and projects which extend beyond the traditional academic purview. Additionally, the center provides resources for maintaining and improving academic programs.

**Reading Center** In conjunction with academic programs for the preparation of reading teachers and specialists, the Reading Center in the College of Education and Psychology provides analysis of present reading strategies and an enrichment program for all school-age children, as well as analysis and enrichment activities and reading improvement courses for...
college students A resource room in the center provides literature, mathematics, social studies, science materials and teacher resources of all kinds. The staff provides consulting services, conducts workshops and conferences, and provides a variety of reading services for public schools in the area. The center is located in Killian Building on the campus in Cullowhee.

Developmental Evaluation Center The Developmental Evaluation Center in the College of Education and Psychology is a service agency for the seven counties of Cherokee, Clay, Graham, Haywood, Jackson, Macon, and Swain. Projects are variously funded by the North Carolina Division of Maternal and Child Health, the Smoky Mountain Center for Mental Health, Developmental Disability, and Substance Services, local school systems, other community agencies, and Western Carolina University. The center provides developmental evaluation, recommendations for services, treatment, and guidance for families of newborns, infants, toddlers, and preschool children. Special services are provided or located, if necessary, and progress is followed until the child enters a school program. The center's program affords opportunities for training and research relevant to the university's academic programs in child development, communication disorders, counseling, early childhood education, medical record administration, nursing, psychology, social work, and special education.

Speech and Hearing Center The Speech and Hearing Center in the College of Education and Psychology provides outpatient diagnostic, treatment, and consultative services for persons with known or suspected speech-language and hearing disorders at its facilities on campus and in outreach clinics in Cherokee, Haywood, and Swain counties. Students studying speech-language pathology receive clinical experiences in the center. All staff and faculty members associated with the center are appropriately certified and licensed in their respective fields.

Highlands Biological Station The Highlands Biological Station is a regional field station where senior scientists and graduate students conduct research on the environments of the southern Appalachians. Located at Highlands, on a high plateau of the Blue Ridge Mountains south of Cullowhee, the station is administered by Western Carolina University. An interinstitutional facility of the University of North Carolina, it is partially supported by twenty-four (24) southeastern universities.

Southern Appalachian Research-Resource Management Cooperative The university is a member of the Southern Appalachian Research-Resource Management Cooperative (SARRMC). Other members are North Carolina State University, Clemson University, University of Georgia, University of Tennessee, Virginia Polytechnic Institute and State University, the National Park Service, the U.S. Forest Service, the Tennessee Valley Authority, and the U.S. Fish and Wildlife Service. The cooperative was established to provide "coordinated research, extension, and educational support of programs to achieve full benefits of Appalachian forestry wildlands, and their associated resources for their natural, commercial, economic, and recreational utilization." Numerous research opportunities for faculty and students are provided. Inquiries should be directed to the program coordinator in the Natural Resources Management Program.

Mountain Aquaculture Research Center The center was officially established by the Board of Governors of the University of North Carolina in 1988 to foster and conduct research and experimental developments to sustain productivity, growth, and the competitive position of the aquaculture industry clustered in southern Appalachia. Funded initially with an institutional grant from the North Carolina Biotechnology Center, the program at Western Carolina University strives to involve staff members from various segments of the university, to develop collaborative and multidisciplinary investigations with primary and secondary industries allied with the intensive farming of freshwater fish, and to cooperate with educational institutions and other agencies interested in the wise husbandry of the aquatic resources of western North Carolina. The Center has also played a role in the development and enrichment of curriculum related to aquaculture, and in the sourcing, adaptation, and diffusion of appropriate technologies.
Center for Environmental and Energy Education. The Western Carolina University Center for Environmental and Energy Education is one of several similar centers in a Tennessee Valley Authority-university network. The center identifies and coordinates the resources of this region in providing educational services addressing population, natural resources, and environmental changes.

Center for Mathematics and Science Education. The Western Carolina Center for Mathematics and Science Education in the College of Education and Psychology is one of ten centers comprising the North Carolina Mathematics and Science Education Network. The purpose of the center and network is to improve mathematics and science instruction in public and private schools by providing instructional activities for teachers, providing courses leading to certifications in mathematics and/or science, and conducting basic research.

Office for Rural Education. The Office for Rural Education in the College of Education and Psychology helps rural elementary and secondary schools improve the quality of their programs by conducting various types of studies, performing practical classroom research, providing instructional and administrative support services, and assisting in identifying alternative types of funding and instruction.

Computer Center. The Computer Center serves both the administrative and academic computing needs of the university. The center is given direction and goals by an advisory committee consisting of faculty and administrators.

The Computer Center has two Digital Equipment Corporation computers, a VAX 4000/300 and a VAX 4000/500. These computers operate under the VAX/VMS operating system, supporting batch and interactive computing simultaneously. There is a total of 312 terminal ports available. The two systems are linked together using Ethernet and DECnet.

The VAX 4000/300 has 4,000 megabytes of disk storage and two 4 mm DAT tape drives. The VAX 4000/500 system has 10,000 megabytes of disk storage and one tape drive. Four printers can be switched between the systems. Software programming languages include Basic, C, Fortran, Pascal, COBOL, and MACRO, with DATATRIEVE as a common report retrieval language. Applications software is acquired as needed.

A variety of generalized programs for the solution of problems in statistics, numerical analysis, and other areas is available through the center's program library facilities. For large research problems and special applications, the computer resources of the North Carolina Supercomputer Center are available through the University of North Carolina Educational Computing Services (UNCES). These services, as well as others (TELENET, TYNMNET, USENET, etc.) are available through an intercampus network called LINCNET. WCU is a BITNET and INTERNET node and an active member of CAUSE and EDUCOM.

Office of School Services. The Office of School Services in the College of Education and Psychology maintains an inventory of campus resources that can be of service to the public schools through technical assistance or research initiatives. The office disseminates information on campus resources, receives requests for assistance from school districts, and directs requests to the appropriate campus resource.

University Media Center. The University Media Center, located in the Hunter Library building, provides instructional media resource services to the university. Services of the center include (1) circulation of video tapes, compact disc and audiovisual equipment, (2) instructional material preparation, (3) micro-computing and printing for faculty and students, (4) microcomputer sales and services, and (5) maintenance and repair support for computer, television, and audiovisual equipment. The facilities of the center include a mediated study area with video and audio playback equipment, and a micro-computing area with 20 computers, word processing software, and 4 laser printers. The center is open from 8:00 a.m. to 9:00 p.m., Monday through Thursday, and 8:00 a.m. to 5:00 p.m. on Friday. The computing area is open the same hours plus Sundays hours are from 3:00 p.m. to 10:00 p.m.

Career and Academic Planning (CAP) Center. The CAP Center offers a wide range of services to students to help them with their career and academic planning. Services included are academic advising for freshmen and undeclared students, career planning and testing,
Internships and cooperative education, assistance with student employment, special academic and personal support services, including services to students with disabilities, and job-placement assistance for seniors and alumni. This integrated approach to meeting the needs of students is highly personalized, and its ultimate objective is to help students prepare for a lifetime of living and learning.

Three federally funded programs for disadvantaged students are administratively a part of the CAP Center. They are Upward Bound, Talent Search, and Student Support Services. Upward Bound and Talent Search provide a wide range of support services to area high school students. These services are designed to keep students in school and to provide post-secondary education and/or training. An Upward Bound Math/Science Regional Center serves students from an eight-state region. Student Support Services assists WCU students with various academic and personal support services designed to improve the likelihood of graduation.

Continuing Education and Summer School

Through the Division of Continuing Education and Summer School, the instructional resources of all units of the university are made available to the people, businesses, industries, schools, organizations, and agencies of the region and the state. The division promotes and coordinates all noncredit and extension credit courses and programs as well as the university summer session. Many noncredit programs, such as workshops, institutes, conferences, seminars, and short courses, are available for Continuing Education Unit (CEU) credit or Teacher Certificate Renewal Credit.

A full summer academic program at the graduate and undergraduate levels is offered in Cullowhee and in Asheville. Special short courses, workshops, and institutes in a number of subjects are available at these locations and in Cherokee. A preliminary schedule is available in January and a summer school bulletin listing the courses and programs offered is available in March of each year.

Listener's Program

The Listener's Program provides persons who are not currently enrolled in a college or a university the opportunity to attend selected undergraduate-level classes on a noncredit basis. Information about eligibility, courses, conditions of class attendance, and permits is available from the Division of Continuing Education and Summer School.

Conferences

The division is equipped to advise, assist, and provide administrative support in the delivery of conferences which have an educational purpose. Experienced staff can develop budgets, assist in program planning, secure appropriate facilities, arrange for lodging, meals, banquets, and tours, provide brochure design, printing, and mailing services, handle registrations, and manage financial details. Conference participants may be housed in campus facilities or off-campus commercial settings depending on the university calendar and the preference of sponsors.

Elderhostel

This national program for people 60 years of age or older is offered on campus every summer and in the spring and fall at selected off-campus locations. Elderhostelers live in a residential setting and attend three classes each day for a week. They enjoy various types of entertainment in the evenings. The weekly fee includes room, board, classes, and extracurricular activities. A limited number of local commuter spaces are available in each session.

Speaker's Bureau

The Speaker's Bureau represents administrators, faculty, and staff from all areas of the university who are prepared to share their knowledge and experience with organizations in the region. These men and women are available to provide stimulating programs to your corporate or community group. Arrangements to schedule a speaker should be made through the Division of Continuing Education and Summer School.

Continuing Professional Education

With the rapid explosion of new knowledge and technologies, up-to-date information is vital for today's professional. A wide range of opportunities is available for continued learning in many fields. Programs can be tailored to meet specific organizational needs and to assist in corporate training efforts at your site.
Vocational/Technical Instructor Project. Instructors in the North Carolina Community College system may earn a bachelor's degree through the Vocational/Technical Instructor Project. Degree requirements may be met by a combination of transfer credit, experiential learning credit, and WCU credit. Courses are offered at locations and times convenient for program participants. The project provides funds for tuition and fees for qualified vocational/technical instructors.

Summer School Programs for Youth. Under the leadership of various schools and departments, a number of summer programs are available for young students. The Cullowhee Experience is designed to challenge the gifted and talented in grades 5-10. The Legislators' School provides leadership training for youth in grades 7-12, and Summer Ventures provides enrichment in the sciences and mathematics. A broad variety of physical and recreational programs are also offered.

Special Summer Events. Each year, the campus hosts a number of special activities enjoyed by students and citizens of western North Carolina. In addition, visiting artists and students enrich campus life with exhibits and displays in a variety of media.

Ramsey Regional Activity Center

The Liston B Ramsey Regional Activity Center, adjacent to E J Whitmire Stadium, is the largest, most versatile public assembly facility of its kind in western North Carolina. The center boasts a seating capacity of over 8,000 people and houses offices of Ramsey Center administration, WCU Athletics, and University Publications. Through a network of movable curtains, the Center can be transformed from a major concert venue or sports arena to a more intimate theatrical setting.

Ramsey Center's multi-purpose design and excellent facilities provide for a wide variety of activities ranging from WCU basketball to major concerts, theater and television productions, workshops, banquets, receptions, and conferences. A ticket office, racquetball courts, weight room, and rifle range are also located in the Ramsey Regional Activity Center.

Other Offices and Services

Research and Sponsored Programs. The university's program to obtain contracts and grants for research and sponsored programs is the responsibility of the Office of Research and Graduate Studies. The office is the source of information about contract and grant possibilities and is the channel through which all faculty and staff proposals are submitted for university approval. They are then sent to the appropriate sponsoring agency. The staff assists faculty, staff, and students in the preparation of proposals, including budget development.

Institutional Studies and Planning. The Office of Institutional Studies and Planning is responsible for coordinating the activities of the Computer Center, institutional research, and space allocation. This office is the primary source of data about the university and develops or coordinates statistical reports requested by other agencies.

University Services. The Office for University Services is responsible for institutional services in several programs, including the Cherokee Center, the Mountain Heritage Center, the Fine Arts Center, the Center for Improving Mountain Living, and the International Development Program. The office acts as liaison with regional, national, and international groups and agencies and coordinates the university's regional economic development initiatives and its international assistance and development programs.

University Advancement. The Office of University Advancement enhances the level of private support provided to the university from a variety of sources including alumni, friends, parents, foundations, and corporations. University Advancement includes administrative responsibilities for the Development Foundation of Western Carolina University, Inc.
Advancement office includes the offices of Alumni Affairs, Loyalty Fund, and Major Gifts, and all institutional fund-raising activities

Public Information The Office of Public Information is responsible for the administration of university programs in public information and publications. It is the liaison between university personnel and the news media, including newspapers and radio and television stations, and coordinates the planning and design of all university publications, exhibits, and displays. It is responsible for producing or arranging for production of all university film, video, and slide-tape presentations intended for the public.

N.C. Center for the Advancement of Teaching

The North Carolina Center for the Advancement of Teaching was established by the General Assembly of North Carolina in 1985 as a statewide center to recognize and support outstanding North Carolina public school (pre K-12) teachers, and to enhance teaching as an art and profession. The center is located west of the WCU campus. A unit of the University of North Carolina, it is governed by a board of trustees, and its programs and activities are conducted by a professional staff of faculty and administrators.
STUDENT SERVICES

Services are provided at Western Carolina University to further each student's academic and social development. The Office for Student Development has overall responsibility in this area, and its functions include providing comfortable housing, helping students adjust to campus life through orientation programs, providing programs of financial aid, counseling services, and health care, and enhancing the college environment with recreational and cocurricular activities.

Housing

The university's ten residence halls are an important part of campus life, offering a variety of experiences that can contribute to intellectual, personal, and social development. They are staffed by professional personnel who are responsible for the welfare of students living on campus and for the upkeep of the buildings.

The halls are open to all students, undergraduate and graduate, to the extent available. Freshmen are required to live on the campus. The requirement may be waived for students living with parents, legal guardians, grandparents, or brothers and sisters, or who are married. Waivers for other reasons are decided by the assistant vice chancellor for student development and the director of university housing.

All rooms are equipped to accommodate two students. There are no single rooms, but private occupancy may be arranged for an additional fee, if space is available.

Each room is furnished with single beds, study desks, chairs, dressers, and closets. Students provide their own pillows, bed linens, blankets, towels, lamps, wastebaskets, and ashtrays. They also may bring radios, stereos, and television sets as long as outside antennas are not required. Cable television is available in public areas. Cable television service is also available in each room as an option to students, who must contract individually with a commercial cable company serving the campus. Other facilities include vending machines, post office boxes, and coin-operated washers and dryers. Local telephone service is included in the housing fee. Each student is assigned a personal security code for long distance service and is responsible for those charges.

Room Reservations. A student may reserve a room by sending a $75.00 reservation/damage deposit and a signed application/contract card to the housing office. This should be done within four weeks after the student is admitted to the university. If all rooms are filled, the student will be notified and placed on a waiting list until a vacancy occurs.

Students who plan to be roommates should make their reservations at the same time. It is especially helpful if the deposits and contract cards are mailed in the same envelope. The housing office reserves the right to make reassignments if they are considered necessary.

Students who wish to change rooms must get approval in advance from the housing office.

Students may move into the residence halls as early as noon on the day before registration. Freshmen and transfer students who need to arrive earlier for orientation programs will be admitted if they have been given approval by the housing office. Students who have official university duties also may arrive earlier if the housing office is notified in advance. A small fee is charged when students move into the halls before the official opening.

Unless the housing office is notified of late arrival, reservations expire at noon on the first day of classes.

Residence Hall Contract. Each student residing in a residence hall signs a contract with the university for the regular academic year, or any part of the year remaining when the student moves into the residence hall. The contract outlines the responsibilities of the student and the university and is a legally binding agreement. It may be cancelled by the student or the university only under conditions outlined in the contract.
Deposit. The $75.00 room reservation deposit serves to reserve a room for each successive semester until graduation or until the student leaves the residence halls. It also serves as a damage deposit. The deposit will be refunded after the last term of residence, less damage charges and other university debts. Students should notify the housing office during their last term in residence so that the refund can be processed. The refund and penalty schedules are included in the residence hall contract.

Summer School Reservations. To reserve rooms in the residence halls for a summer term, students pay a $75.00 damage deposit. If a student has an active contract, they are required to notify the Department of Housing to request summer housing, if attending summer school. The fee is deducted from total expenses at the time of registration. It is refundable if the student makes a request for refund to the housing office at least two weeks before summer registration.

Housing for Married and Graduate Students. Robertson Hall is available to married and graduate students. It consists of 37 efficiency and five one-bedroom apartments. A limited number of other apartments ordinarily reserved for faculty and staff may also be available. Madison Hall is available for graduate students and offers private rooms and private baths and is air conditioned.

Residence Hall Regulations. For health and safety reasons and because of legal statutes, the university is unable to allow certain items in resident housing. These items include bodybuilding equipment, cooking appliances, fireworks, outside antennas, radio transmitters, air conditioners, firearms, ammunition, explosives, water beds, and dart and archery equipment. To ensure the welfare of residents, certain harmful activities are not permitted, such as fighting, wrestling, gambling, vandalism, or littering in or around the buildings. Students who are involved in the damage or loss of residence hall property will be required to pay for the cost of repair or replacement, or to share in such costs if more than one student is responsible for the damage or loss.

Housing inspections or investigations for purposes of safety, health, maintenance, sanitation, or reasonable cause are proper responsibilities of the housing office and are not to be interpreted as an invasion of privacy. Information about investigations or searches is contained in the Student Bill of Rights, Article 6, Section B.

The university extends to students the privilege of visiting with members of the opposite sex in residence hall rooms. Guidelines for guest visitation are established by each hall. All resident students and their guests are expected to follow the rules and regulations of the university as well as state and federal laws.

Off-Campus Housing. Students who plan to live off the campus make their own living arrangements. It is a good idea to inspect the facilities before making any housing agreement and to obtain a written contract outlining the responsibilities of the renter and landlord. Students who move from the residence halls to off-campus locations must notify the housing office and receive approval in advance. Students living off campus are governed by the rules and regulations of the university while on campus.

Student Activities and Services.

A variety of programs, activities, and services identified with everyday living are available on campus. Students are encouraged to choose and participate in extracurricular activities wisely and balance them with their academic endeavors. The student activity fee helps to support many of these activities and services as well as a number of cultural and variety programs. The fee also supports the campus radio station, newspaper, literary magazine, and yearbook.

Voluntary associations of students on the campus are recognized as an important part of the educational process. More than one hundred recognized campus organizations provide students opportunities to explore their religious, political, professional, social, or special interests and to be recognized for their academic and personal achievements.
Student Government  The Student Government Association (SGA) is an active, vital part of the university community. Each student has the right to vote in all student elections and may participate in SGA by running for office or by applying for an appointive position. The SGA sends voting members to committees of the Faculty Senate, and the president of SGA is an ex officio member of the university’s Board of Trustees.

A. K. Hinds University Center  The University Center, a major division of the Office for Student Development, is the hub of campus activity. It houses the offices of the SGA and University Center staff, a ballroom, several meeting and conference rooms, an art gallery, a restaurant and snack bar, a television lounge, and billiard room. Four motel units and an efficiency apartment are available. Through functions such as cook-outs, films, dances, concerts, canoe trips, and various other events, the center caters to the needs of the entire university community. Many activities are planned and organized by the students themselves through a program committee.

Recreation and Sports

The facilities of the Reid Health and Physical Education Building, Breese Gymnasium, and A. K. Hinds University Center make possible a rich recreational program. Indoor and outdoor recreation includes tennis, volleyball, basketball, swimming, bowling, handball, racquetball, softball, badminton, table tennis, and archery.

Cullowhee’s location offers excellent opportunities for mountain climbing, fishing, skiing, hunting, golf, boating, and camping. Students may easily visit the Great Smoky Mountains National Park and other nearby places of interest.

Intramurals  The university offers a comprehensive intramural sports program for all students that includes more than thirty team, individual, and coed sports.

Athletics  The university provides a full program of 14 intercollegiate sports. Athletic teams play a full schedule: in football, baseball, men’s and women’s golf, men’s and women’s basketball, women’s volleyball, men’s and women’s indoor and outdoor track, men’s and women’s cross country, and men’s and women’s tennis. The university is a member of the National Collegiate Athletic Association (NCAA Division I) and the Southern Conference. A standing committee of the Faculty Senate is responsible for reviewing and recommending policy regarding intercollegiate athletics.

Health Services

Routine and emergency health care are provided by the University Health Service. Outpatient medical care as well as inpatient services, usually at no additional charge, are provided to students. Policies concerning outpatient services available to university employees are stated in the Faculty Handbook.

The Health Service does not assume responsibility for complicated or chronic mental or physical illness, surgical and dental operations, X-ray procedures, and needs that require the care of specialists. However, referral service is available.

Physician, nurse, and laboratory personnel and outpatient and inpatient facilities are housed in the Graham Infirmary where consultation hours are posted. For emergency referrals and health service information, the telephone number is 227-7640.

A complete medical record is required of all students entering the university. Additional information for updating during the period of actual attendance may be requested. New students are required by North Carolina General Statute 130A-155 1 to have the following current immunizations: diphtheria-pertussis-tetanus or tetanus-diphtheria, measles (rubeola), rubella, and polio. Evidence of the immunizations should be in the student’s records at the time of registration. If this evidence is not present, the student will have 30 days to correct the deficiency. If the deficiency is not corrected in this time period, the student will not be allowed to continue to attend the university.
Health Insurance  An accident and hospitalization group insurance policy is available to students from an approved commercial agent at registration. The coverage is optional, but it is strongly recommended that all students have some form of insurance to cover the cost of medical treatment not available through the University Health Service. Health insurance coverage is mandatory for international students. More information is available from the Office for Student Development.

Mental Health Service  The Smoky Mountain Mental Health Center is a regional outpatient diagnostic and treatment facility serving the university community. The services are available by appointment or on an emergency basis by telephoning 293-9281.

Counseling, Testing, Psychological Services Center  Counseling Center services include confidential individual and group counseling and therapy, consultation, and outreach programming to aid students with educational, personal, or psychological concerns. Testing includes the Graduate Record Examination, National Teacher Examination, Medical College Aptitude Test, Miller Analogies Test, Scholastic Aptitude Test, Law School Admissions Test, and the Graduate Management Admission Test.

Other Services and Facilities

New Student Orientation  The university sponsors a summer orientation program for all new students, freshmen, and transfers. Several sessions are held each summer and students may select the one they wish to attend. Faculty members, administrators, staff, and student leaders conduct the program to acquaint new students with the academic, cocurricular, and social life of the university. Students are given information about the academic community, take advanced placement and screening tests, receive academic advising, and register for courses for the fall semester. Upon admission to the university, each student will be mailed pertinent information about participation in the program. Short orientation programs for new students are held in January for the spring semester and in June and July for summer school.

Cardiac Rehabilitation and Intervention Program  The Cardiac Rehabilitation and Intervention Program in the College of Education and Psychology provides programs in exercise, diet, and stress management for faculty, staff, and the local community.

The Office of Special Programs/Teaching Fellows Program  The Office of Special Programs/Teaching Fellows Program in the College of Education and Psychology assists in organizing special events in the college (e.g., student recruitment activities, scholarship awards, Odyssey of the Mind Tournament) and coordinates the North Carolina Teaching Fellows Program for the university.

Teacher Placement Service. Placement services are available to all teacher education graduates and alumni who seek employment in the field of education through the Career Advisement and Placement Center, 80 McKee Building.

Veterans Affairs. The associate dean of student development has the responsibility for providing full services to all students eligible for federal veterans benefits.

International Student Services  The assistant to the vice chancellor for student development serves as the international student adviser on immigration matters, advising, programming, and all aspects of university and community life.

Books and Supplies  The WCU Bookstore offers students a wide variety of educational materials and supplies, gift items, and miscellaneous articles for personal use. An extensive selection of paperback books is offered for class use and extracurricular reading. All books for graduate students and supplemental texts and materials for undergraduates are sold by the store. Caps and gowns, graduation invitations, and class rings also may be purchased. The book rental plan operated through the Book Rental Department of the bookstore is explained in the fees section of this catalog.

Meals  The university operates food services for students at five campus locations. Dodson Cafeteria on the lower campus, the Food Court at the entrance to Dodson Cafeteria, Brown
Cafeteria on the upper campus, the Top of the Stairs Restaurant, and P G KATZ Snack Bar in Hinds University Center. These facilities serve all students who participate in a board plan or who wish to purchase meals individually. Students who live in the university's residence halls are required to participate in a board plan. Choices available are a declining balance standard option, declining balance low option, 15-meal per week plan, or 21-meal per week plan. Participation in any of these board plans or in a 10-meal per week plan is optional for commuting students. The board plans are described in the fees section of this catalog.

Mail Service. Students residing on campus are assigned a residence-hall mailbox with their room assignments. All other students may rent a box in the Cullowhee Post Office. Postal regulations do not permit receipt of mail through general delivery after an initial thirty-day period. An on-campus branch of the Cullowhee Post Office, in McKee Building, provides service from 11:00 a.m. until 1:00 p.m., Monday through Friday.

Laundry. Coin-operated washers and dryers are provided in all residence halls for the use of the residents. Commercial coin-operated laundries are located in Cullowhee and Sylva for use by the general public.

Bus Service. The university provides a free shuttle bus service for students between Cullowhee and Sylva. This service is provided primarily for students without automobiles, however, students with automobiles are encouraged to use the service to conserve energy. Information about the schedule is available at the information desk in the University Center.

Bank Services. A branch office of the Wachovia Bank and Trust Company is located in Cullowhee. Offices of this bank, First Union National Bank, NationsBank, Community Bank & Trust Company, and First Citizens Bank and Trust are located in or near Sylva.

Disabled Student Services. Assistance for disabled students is available through the Office for Student Development, 460 H F. Robinson Administration Building, Dr. Bomta Jacobs, 227-7234.

General Regulations and Safety Policies

The general regulations pertaining to student life at Western Carolina University are published in the Student Handbook. Student rules and regulations are the responsibility of the Office for Student Development. Other regulations deemed necessary for the welfare of the members of the university community are the responsibility of the appropriate unit of the university, subject to administrative approval.

All members of the university community have the responsibility of conducting themselves in a manner befitting the university environment. The university can fulfill one of its major obligations to its students by providing opportunities for the development of self-discipline, respect for others, and concern for one's personal conduct.

While on the campus, students are subject to the rules of the university, whether or not classes are in session. Students who exhibit unseemly conduct, destructive behavior, or impinge on the rights of other individuals, as these terms are defined in the Student Handbook, are subject to action by the university.

Hazing is forbidden under North Carolina law. “Upon conviction of any student of the offense of hazing, or of aiding in the commission of this offense, he/she shall, in addition to any punishment imposed by the court, be expelled from the college or school he/she is attending. The faculty or governing board of any college or school charged with the duty of expulsion of students for proper cause shall, upon such conviction, at once expel the offender, and a failure to do so shall be a misdemeanor.”

Firearms are not permitted on university property except for academic instruction and law enforcement purposes.

The university, in accordance with the laws of the State of North Carolina, forbids the possession or use of fireworks in any building or location on the campus. Severe disciplinary action will be taken if this law is violated.
Drunkenness, and other abuse of alcoholic beverages, is grounds for disciplinary action. Although possession and consumption of alcohol by students is not sanctioned by the university, these acts cannot be controlled in rooms assigned to students without undue invasion of privacy. Therefore, possession and consumption of alcoholic beverages within on-campus residence rooms is an option to be determined by the occupants of each room, within the framework of student regulations and North Carolina law. Public display or consumption of alcoholic beverages is not permitted. All students should be familiar with the policies in the Student Handbook and the laws of North Carolina concerning alcoholic beverages.

Policy on Illegal Drugs

I Purpose

Western Carolina University is an academic community dedicated to the transmission and advancement of knowledge and understanding. The Board of Trustees is committed to the maintenance and protection of an environment in which students and faculty members may responsibly pursue these goals through teaching, learning, research, discussion, and publication, free from internal or external restraints that would unreasonably restrict their academic endeavors. Moreover, it is the obligation of all members of the university community—faculty, students, administrators, and other employees—to help maintain an environment where academic freedom flourishes and in which the rights of each member of the academic community are respected. The illegal use of and trafficking in drugs can jeopardize the welfare of members of this academic community. Accordingly, in an effort to responsibly address such threats to the integrity of the academic environment, the Board of Trustees adopts this policy.

II Applicable Policies, Practices, and Programs

A. Education, Prevention, Counseling, and Rehabilitation

1. Just as the primary purpose of Western Carolina University is education, so also the university's major effort to address drug abuse should be educational in nature. The university shall maintain a comprehensive drug education program available to all members of the academic community (students, faculty, administration and staff). The activities of the program shall be the responsibility of the Drug and Alcohol Education Task Force co-chaired by the vice-chancellor for student development and the associate vice-chancellor for academic affairs and composed of faculty, staff and students. The task force shall develop and coordinate an ongoing program available to all members of the academic community that

- a. informs members of the academic community about the health hazards associated with drug abuse
- b. emphasizes the incompatibility of drug abuse and maximum achievement of personal and educational goals
- c. encourages members of the campus community to make use of available campus and community counseling, medical, and rehabilitation resources in dealing with drug abuse problems
- d. informs members of the academic community that they also may be subject to criminal prosecution for violating state laws relating to the illegal use, possession, delivery, sale, manufacture, or creation of controlled substances

2. WCU shall provide information about drug counseling and rehabilitation services to members of the university community, through campus-based programs for students and through community-based organizations for faculty, staff, and students. Persons who voluntarily avail themselves of university services shall be assured that applicable professional standards of confidentiality will be observed.
B. Enforcement and Penalties

1 Western Carolina University shall take all actions necessary, consistent with state and federal law and applicable university policy, to eliminate illegal drugs from the university community. The institutional policy on illegal drugs shall be publicized in catalogs and other relevant materials prepared for all enrolled and prospective students and in relevant materials distributed to faculty members, administrators, and other employees.

2 Students, faculty members, administrators, and other employees are responsible, as citizens, for knowing about and complying with the provisions of North Carolina law that make it a crime to possess, sell, deliver, or manufacture those drugs designated collectively as "controlled substances" in Article 5 of Chapter 90 of the North Carolina General Statutes. Any member of the university community who violates that law is subject both to prosecution and punishment by the civil authorities and to disciplinary proceedings by the university. It is not "double jeopardy" for both the civil authorities and the university to proceed against and punish a person for the same specified conduct. The university shall initiate its own disciplinary proceeding against a student, faculty member, administrator, or other employee when the alleged conduct is deemed to affect the interests of the university.

3 Penalties shall be imposed by the university in accordance with procedural safeguards applicable to disciplinary actions against students, faculty members, administrators, and other employees, and by regulations of the State Personnel Commission.

4 The penalties to be imposed by the university shall range from written warnings with probationary status to suspensions from enrollment and discharges from employment. However, the following minimum penalties shall be imposed for the particular offenses described.

III Trafficking in Illegal Drugs

A For the illegal manufacture, sale or delivery, or possession with intent to manufacture, sell, or deliver, of any controlled substance identified in Schedule I, N.C. General Statutes 90-90, or Schedule II, General Statutes 90-90 (including, but not limited to, heroin, mescaline, lysergic acid diethylamide, opium, cocaine, amphetamine, methaqualone), any student shall be expelled and any faculty member, administrator, or other employee shall be discharged.

B For a first offense involving the illegal manufacture, sale or delivery, or possession with intent to manufacture, sell, or deliver, of any controlled substance identified in Schedules III through VI, N.C. General Statutes 90-91 through 90-94 (including but not limited to marijuana, pentobarbital, codeine), the minimum penalty shall be suspension from enrollment or from employment for a period of at least one semester or its equivalent. For a second offense, any student shall be expelled and any faculty member, administrator, or other employee shall be discharged.

IV Illegal Possession of Drugs

A For a first offense involving the illegal possession of any controlled substance identified in Schedule I, N.C. General Statutes 90-89, or Schedule II, N.C. General Statutes 90-90, the minimum penalty shall be suspension from enrollment or from employment* for a period of at least one semester or its equivalent.

B For a first offense involving the illegal possession of any controlled substance identified in Schedules III through VI, N.C. General Statutes 90-91 through 90-94, the minimum penalty shall be probation, for a period to be determined on a case-by-case basis. A person on probation must agree to participate in a drug education and counseling program, consent to regular drug testing, and accept such other conditions and restrictions, including a program of community service, as the chancellor or the chancellor's designee deems appropriate.

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* Rules of the State Personnel Commission govern disciplinary actions that may be taken against SPA employees, under current Commission policies, discharge rather than suspension is the applicable penalty for SPA employees in instances where this policy otherwise requires suspension.
Refusal or failure to abide by the terms of probation shall result in suspension from enrollment or from employment* for any unexpired balance of the prescribed period of probation.

C. For second or other subsequent offenses involving the illegal possession of controlled substances, progressively more severe penalties shall be imposed, including expulsion of the students and discharge of faculty members, administrators, or other employees.

V. Suspension Pending Final Disposition

When a student, faculty member, administrator, or other employee has been charged by the university with a violation of policies concerning illegal drugs, he or she may be suspended from enrollment or employment before initiation or completion of regular disciplinary proceedings if, assuming the truth of the charges, the chancellor or, in the chancellor's absence, the chancellor's designee concludes that the person's continued presence within the university community would constitute a clear and immediate danger to the health or welfare of other members of the university community, provided, that if such a suspension is imposed, an appropriate hearing of the charges against the suspended person shall be held as promptly as possible thereafter.

VI Compliance with Federal Drug-free Workplace Act of 1988 Pertaining to Employees

A. As a condition of employment an employee must abide by the terms of this policy and must notify his immediate supervisor at Western Carolina University of any criminal drug conviction occurring in the workplace no later than five days after that conviction.

B. Western Carolina University will notify federal granting or contracting agencies within ten days after receiving notice that an employee directly engaged in a grant or contract has been convicted of a drug offense in the workplace.

C. Western Carolina University will impose sanctions and/or require satisfactory participation in drug abuse or rehabilitation programs by an employee convicted of a drug-related violation in the workplace no later than 30 days after notice of said conviction.

Traffic and Law Enforcement

The Public Safety Office is responsible for traffic, parking, security, and general law enforcement on the campus, operating under the provisions of state and federal law and university regulations. State statutes provide that campus traffic and parking regulations have the force of law, and violators may be subject to the penalties prescribed by law. All students and university personnel owning, operating, or having custody of a motor vehicle on campus must register it at the Public Safety Office and display a current registration sticker. A detailed listing of regulations is published annually, and a copy is given to each vehicle registrant.

The Traffic and Security Committee, composed of students, faculty, and staff, is responsible for reviewing and recommending policy regarding traffic and parking on campus. The committee also functions as an appeals board for faculty and staff violations. Appeals of student violations are handled by a committee of SGA.

Information on crime prevention programs and crime statistics is available at the Public Safety Office in the Jordan-Phillips Fieldhouse or from the Office for Student Development, 460 Robinson Administration Building.
Western Carolina University holds its charges to the minimum commensurate with the provision of needed services. The following schedule of fees, due and payable at the beginning of each semester, will be effective beginning with the fall semester of the 1994-95 academic year. The university reserves the right to alter any charges without prior notice upon direction from appropriate governing authorities.

All applicants for admission must pay an application fee of $20.00. This fee is charged to cover the cost of processing the application and is not refundable for any student and is not applicable toward the payment of other fees for students who enroll.

**Payment of Fees.** All charges are due and payable on or before the date of registration for each term. Payment by check in the exact amount of the bill is recommended. A fee of $10.00 is assessed if a bank declines payment of a student's personal check and the student is at fault.

Any fees or fines not paid will cause the university to withhold the issuing of transcripts and other records, including registration materials, until all debts are cleared. Failure to make proper payments on account will result in cancellation of registration.

**Late Registration.** A student who registers and pays fees after the last regular registration date will be charged a late registration fee of $10.00. See the Academic Calendar.

### Fees Per Semester

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuition</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina student</td>
<td>$370.00</td>
<td>$370.00</td>
</tr>
<tr>
<td>Out-of-state student</td>
<td>$3,403.00</td>
<td>$3,403.00</td>
</tr>
<tr>
<td>Required fees*</td>
<td>$338.50</td>
<td>$338.50</td>
</tr>
<tr>
<td>Book Rental Fee</td>
<td>$55.00</td>
<td>**</td>
</tr>
<tr>
<td>Room</td>
<td>$640.00</td>
<td>$640.00</td>
</tr>
<tr>
<td><strong>Board (required of residence hall students)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dealing Balance-Standard Option</td>
<td>$618.00</td>
<td>$618.00</td>
</tr>
<tr>
<td>Dealing Balance-Low Option</td>
<td>$561.00</td>
<td>$561.00</td>
</tr>
<tr>
<td>15-meal plan</td>
<td>$546.00</td>
<td>$546.00</td>
</tr>
<tr>
<td>21-meal plan</td>
<td>$587.00</td>
<td>$587.00</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Day Student</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina rate</td>
<td>$763.50</td>
<td>$708.50</td>
</tr>
<tr>
<td>Out-of-state rate</td>
<td>$3,796.50</td>
<td>$3,741.50</td>
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<tr>
<td>Residence hall boarding student</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with Dealing Balance-Standard Option</td>
<td>$2,021.50</td>
<td>$1,966.50</td>
</tr>
<tr>
<td>with Dealing Balance-Low Option</td>
<td>$1,964.50</td>
<td>$1,909.50</td>
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<tr>
<td>with 15-meal plan</td>
<td>$1,949.50</td>
<td>$1,894.50</td>
</tr>
<tr>
<td>with 21-meal plan</td>
<td>$1,990.50</td>
<td>$1,935.50</td>
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<tr>
<td>Out-of-state rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with Dealing Balance-Standard Option</td>
<td>$5,054.50</td>
<td>$4,999.50</td>
</tr>
<tr>
<td>with Dealing Balance-Low Option</td>
<td>$4,997.50</td>
<td>$4,942.50</td>
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<tr>
<td>with 15-meal plan</td>
<td>$4,982.50</td>
<td>$4,927.50</td>
</tr>
<tr>
<td>with 21-meal plan</td>
<td>$5,023.50</td>
<td>$4,968.50</td>
</tr>
</tbody>
</table>

* Required fees include Health Services, $77.00; Recreational and Cultural, $64.00; Athletics, $98.00; Athletic Facilities, $16.00; University Center, $66.00; Documents Fee, $2.00; Education and Technology Fee, $15.50.

** Textbooks are available to graduate students by purchase only.
## II Part-time Student

(Undergraduate, enrolled for 11 hours or less, Graduate, enrolled for 8 hours or less)

<table>
<thead>
<tr>
<th>Hours Enrolled</th>
<th>Undergraduate In-State</th>
<th>Undergraduate Out-of-State</th>
<th>Graduate In-State</th>
<th>Graduate Out-of-State</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$123.70</td>
<td>$881.70</td>
<td>$114.10</td>
<td>$872.10</td>
</tr>
<tr>
<td>2</td>
<td>$154.40</td>
<td>$912.40</td>
<td>$135.20</td>
<td>$893.20</td>
</tr>
<tr>
<td>3</td>
<td>$185.10</td>
<td>$943.10</td>
<td>$248.30</td>
<td>$1,765.30</td>
</tr>
<tr>
<td>4</td>
<td>$215.80</td>
<td>$973.80</td>
<td>$269.40</td>
<td>$1,786.40</td>
</tr>
<tr>
<td>5</td>
<td>$246.50</td>
<td>$1,004.50</td>
<td>$290.50</td>
<td>$1,807.50</td>
</tr>
<tr>
<td>6</td>
<td>$369.20</td>
<td>$1,886.20</td>
<td>$404.60</td>
<td>$2,678.60</td>
</tr>
<tr>
<td>7</td>
<td>$399.90</td>
<td>$1,916.90</td>
<td>$425.70</td>
<td>$2,699.70</td>
</tr>
<tr>
<td>8</td>
<td>$430.60</td>
<td>$1,947.60</td>
<td>$446.80</td>
<td>$2,720.80</td>
</tr>
<tr>
<td>9</td>
<td>$554.30</td>
<td>$2,828.30</td>
<td></td>
<td></td>
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<tr>
<td>10</td>
<td>$585.00</td>
<td>$2,859.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>$615.70</td>
<td>$2,889.70</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For each credit course scheduled for audit, a charge will be made equal to the credit hour value of the audited course.

## III Asheville Student

Fees for all Western Carolina University resident-credit courses taught in Asheville are the same as on the Cullowhee campus. All UNCA credit courses in which a student enrolls carry an additional cost per credit hour regardless of the fees paid for credit from Western Carolina University.

## IV Other Fees

- Undergraduate Admission Application Fee (one time only) $20.00
- Late Registration Fee 10.00
- Cap, Gown, and Hood obtained through WCU Bookstore
- CLEP, GRE, NTE, etc fee set by Educational Testing Service
- Cooperative Education Fee (work semesters only) 30.00

Certain courses in some fields require laboratory or materials fees in addition to the costs listed here.

## Board Plan

University policy requires students who live in a residence hall to purchase a board plan. Commuting students' participation in a board plan is optional. The following board plans are offered to residence hall students and to commuter students:

- *Declining Balance-Standard Option* $618.00
- *Declining Balance-Low Option* 561.00
- 21-Meal Standard Plan (3 meals/day, in sequence, 7 days/week) 587.00
- 15-Meal Standard Plan (any 15 meals, in sequence, Sun-Sat) 546.00

* The declining balance meal plan is a dining program wherein students pay an advance deposit at the beginning of each semester from which purchases are deducted throughout the term. Students who choose this option are issued an encoded identification card to be used as a debit card for purchases at Brown and Dodson cafeterias, the Food Court, PG KAIZ Snack Bar, and the Top of the Stairs Restaurant. During the semester, additional prepayments in minimum increments of $50.00 may be made by any student with a declining balance account.
Commuting students have two additional options: a declining balance minimum prepayment of $50.00 or a 10-meal standard plan ($427) which provides any ten meals, Monday through Sunday.

Students who purchase the standard 21-, 15-, and 10-meal plans may supplement these plans by establishing prepaid declining balance accounts in minimum increments of $50.00.

Food service is not provided when the cafeterias are closed during holidays and other periods when the university is not in session.

**Book Rental Plan**

Textbooks for courses numbered 100-499 are furnished to on-campus undergraduate students on a rental basis by the Book Rental Department of the bookstore. Students pay a flat fee of $55.00 each semester and are entitled to the adopted textbook used in each course for which they are registered. All books must be returned to the Book Rental Department at the end of each term. This plan does not provide notebooks, workbooks, paperbacks, manuals, or supplemental books and materials, but these are available for purchase at the bookstore. Students may buy textbooks at the used book price if they wish, but this does not exempt them from paying the rental fee. Further information about the Book Rental Plan can be found in the *Faculty Handbook*, Volume 2, Section 5.19.

Rental books are to be returned no later than five working days after the last day of final examinations for each term, including the summer school term. Students who do not comply with this time limit will be charged a fine of $20.00 if the books are returned within the first two weeks of the next regular school term. Thereafter, students will be required to purchase the books at the replacement cost (list price less 20 percent). Grossly mistreated books must be purchased in any case.

Graduate students must purchase all their texts regardless of the level of the courses. Textbooks for courses numbered 500 and above are available at the bookstore. Textbooks for courses numbered below 500 are available for purchase at the Book Rental Department.

**Residence Status for Tuition Purposes**

The basis for determining the appropriate tuition charge rests upon whether a student is a resident or a nonresident for tuition purposes. Each student must make a statement as to the length of his or her residence in North Carolina, with assessment by the institution of that statement to be conditioned by the following:

**Residence**

To qualify as a resident for tuition purposes, a person must become a legal resident and remain a legal resident for at least twelve months immediately prior to classification. Thus, there is a distinction between legal residence and residence for tuition purposes. Furthermore, twelve months legal residence means more than simple abode in North Carolina. In particular, it means maintaining a domicile (permanent home of indefinite duration) as opposed to “maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education.” The burden of establishing facts which justify classification of a student as a resident entitled to in-state tuition rates is on the applicant for such classification, who must show his or her entitlement by the preponderance (the greater part) of the residentiary information.

**Initiative**

Being classified a resident for tuition purposes is contingent on the student’s seeking such status and providing all information that the institution may require in making the determination.

**Parents’ Domicile**

If an individual, irrespective of age, has living parent(s) or court-appointed guardian of the person, the domicile of such parent(s) or guardian is, prima facie, the domicile of the individual, but this prima facie evidence of the individual’s domicile may or may not be sustained by other information. Further, nondomiciliary status of parents is not deemed prima facie evidence of the applicant child’s status if the applicant has lived (though not necessarily legally resided) in North Carolina for the five years preceding enrollment or re-registration.
Effect of Marriage

Marriage alone does not prevent a person from becoming or continuing to be a resident for tuition purposes, nor does marriage in any circumstance insure that a person will become or continue to be a resident for tuition purposes. Marriage and the legal residence of one's spouse are, however, relevant information in determining residentiary intent. Furthermore, if both husband and his wife are legal residents of North Carolina and if one of them has been a legal resident longer than the other, then the longer duration may be claimed by either spouse in meeting the twelve-month requirement for in-state tuition status.

Military Personnel

A North Carolinian who serves outside the state in the armed forces does not lose North Carolina domicile simply by reason of such service. And students from the military may prove retention or establishment of residence by reference, as in other cases, to residentiary acts accompanied by residentiary intent.

In addition, a separate North Carolina statute affords tuition rate benefits to certain military personnel and their dependents even though not qualifying for the in-state tuition rate by reason of twelve months legal residence in North Carolina. Members of the armed services, while stationed in and concurrently living in North Carolina, may be charged a tuition rate lower than the out-of-state tuition rate to the extent that the total of entitlements for applicable tuition costs available from the federal government, plus certain amounts based under a statutory formula upon the in-state tuition rate, is a sum less than the out-of-state tuition rate for the pertinent enrollment. A dependent relative of a service member stationed in North Carolina is eligible to be charged the in-state tuition rate while the dependent relative is living in North Carolina with the service member and if the dependent relative has met any requirement of the Selective Service System applicable to the dependent relative. These tuition benefits may be enjoyed only if the applicable requirements for admission have been met, these benefits alone do not provide the basis for receiving those derivative benefits under the provisions of the residence classification statute reviewed elsewhere in this summary.

Grace Period

If a person (1) has been a bona fide legal resident, (2) has consequently been classified a resident for tuition purposes, and (3) has subsequently lost North Carolina legal residence while enrolled at a public institution of higher education, that person may continue to enjoy the in-state tuition rate for a grace period of twelve months measured from the date on which North Carolina legal residence was lost. If the twelve months ends during an academic term for which the person is enrolled at a state institution of higher education, the grace period extends, in addition, to the end of that term. The fact of marriage to one who continues domiciled outside North Carolina does not by itself cause loss of legal residence marking the beginning of the grace period.

Minors

Minors (persons under 18 years of age) usually have the domicile of their parents, but certain special cases are recognized by the residence classification statute in determining residence for tuition purposes.

(a) If a minor's parents live apart, the minor's domicile is deemed to be North Carolina for the time period(s) that either parent, as a North Carolina legal resident, may claim and does claim the minor as a tax dependent, even if other law or judicial act assigns the minor's domicile outside North Carolina. A minor thus deemed to be a legal resident will not, upon achieving majority before enrolling at an institution of higher education, lose North Carolina legal residence if that person (1) upon becoming an adult "acts, to the extent that the person’s degree of actual emancipation permits, in a manner consistent with bona fide legal residence in North Carolina" and (2) "begins enrollment at an institution of higher education not later than the fall academic term following completion of education prerequisite to admission at such institution."

(b) If a minor has lived for five or more consecutive years with relatives (other than parents) who are domiciled in North Carolina and if the relatives have functioned during this time as if they were personal guardians, the minor will be deemed a resident for tuition purposes for an enrolled term commencing immediately after at least five years in which these circumstances have existed. If under this consideration a minor is deemed to be a resident for tuition purposes immediately prior to his or her eighteenth birthday, that person on achieving majority will be deemed a legal resident of North Carolina of at least twelve months duration.
This provision acts to confer in-state tuition status even in the face of other provisions of law to the contrary, however, a person deemed a resident of twelve months duration pursuant to this provision continues to be a legal resident of the state only so long as he or she does not abandon North Carolina domicile.

Lost but Regained Domicile  If a student ceases enrollment at or graduates from an institution of higher education while classified a resident for tuition purposes and then both abandons and reacquires North Carolina domicile within a 12-month period, that person, if he or she continues to maintain the reacquired domicile into re-enrollment at an institution of higher education, may re-enroll at the in-state tuition rate without having to meet the usual twelve-month durational requirement. However, any one person may receive the benefit of the provision only once.

Change of Status  A student admitted to initial enrollment in an institution (or permitted to re-enroll following an absence from the institutional program which involved a formal withdrawal from enrollment) must be classified by the admitting institution either as a resident or as a nonresident for tuition purposes prior to actual enrollment. A residence status classification once assigned (and finalized pursuant to any appeal properly taken) may be changed thereafter (with corresponding change in billing rates) only at intervals corresponding with the established primary divisions of the academic year.

Transfer Students  When a student transfers from one North Carolina public institution of higher education to another, he or she is treated as a new student by the institution to which he or she is transferring and must be assigned an initial residence status classification for tuition purposes.

A change of status and tuition rates is made effective only at the beginning of the appropriate term. A person who has been a resident and eligible for in-state tuition but who loses legal residence while enrolled may continue to enjoy the in-state tuition rate for a grace period of 12 months from the date on which legal residence was lost. If the grace period ends during an academic term while the person is enrolled at the university, the grace period extends, in addition, to the end of that term.

Complete information on regulations concerning tuition differentials and residence status is available on request in the offices of the assistant vice-chancellor for academic affairs, registrar, director of admissions, dean of research and graduate studies, and the vice-chancellor for student development. Applications for rulings and appeals concerning the residence classification of undergraduate students should be directed to the admissions office and for all graduate students to the Graduate School. Students may appeal decisions on residency classification to the campus committee on legal residency by communicating with the assistant vice-chancellor for student development.

The student who becomes eligible for a change in classification, whether from out-of-state to in-state or the reverse, has the responsibility of immediately informing the appropriate office. Failure to give complete and correct information regarding residence constitutes grounds for disciplinary action.

Waiver of Tuition  Legal residents of North Carolina who have attained the age of 65 and who meet applicable admission standards may enroll on a tuition-free basis if space is available, but must pay required fees. Further information is available from the registrar.

Refund Policies

Academic Year Tuition and Fees  During a fall or spring semester, any full-time or part-time student who withdraws from the university on or before the final day of regular registration will be refunded 100 percent of tuition and fees. A student who withdraws from the university within the next seven calendar days following the last day of regular registration will be refunded 85 percent of tuition and fees. A student who withdraws within the next seven calendar days following the last day to receive an 85 percent refund will be refunded 70 percent of tuition and fees. Students who withdraw thereafter will not be entitled to a refund.
Students who withdraw from the university as a result of voluntary recall to military service, pursuant to a presidential order authorizing the call-up of reservists, and who are thereby prevented from receiving credit for the courses in which he/she is enrolled will be entitled to a full refund of tuition and fees. Refunds of room and board charges will be prorated based on the number of days the dormitory room was occupied and the meal ticket was used. Students having the declining balance meal plan will be refunded the actual account balance at the time of withdrawal.

Students who reduce their course loads during the registration period for the semester as defined in this catalog, but who continue to be enrolled in the university, will have their tuition and fees adjusted fully to reflect only the number of semester hours in which they remain enrolled. Part-time students are eligible for a refund based on the semester hour tuition rate. Full-time students are eligible for a refund only when course loads are reduced below the minimum hours required to qualify as full-time. No adjustment will be made for reduced loads after the close of the registration period. However, students who drop all courses must withdraw from the university. They are, therefore, eligible only for the partial refunds that apply to university withdrawals.

**Summer School Tuition and Fees** A student who withdraws from summer school on or before the close of the regular registration day will be refunded 100 percent of tuition and fees. A student who withdraws within three days following regular registration or on or before the date of the second class meeting, whichever is later, will be refunded 85 percent of tuition and fees. Students who withdraw after this period will not be entitled to refunds.

Summer school students who reduce their course loads by one or more semester hours within three days following regular registration or on or before the date of the second class meeting, whichever is later, will have tuition and fees adjusted to reflect the number of semester hours in which they remain enrolled.

**Room and Board** Refunds of room rent for any semester or summer term will be calculated at the same rate as tuition and fees, except when a student is eligible for full (100%) refund of tuition and fees. In the latter case, the room rent refund will be prorated according to the number of days the room was occupied. The residence hall room deposit is not refundable in any case.

Meal ticket refunds will be made on a weekly prorated basis. Refunds will not be made for the last two weeks of a semester or for the last week of a summer session.

**Exceptions** Exceptions to these policies may be made if a student withdraws from the university for reasons of hardship. Prorated refunds of tuition and fees, room rent, and meal charges may be made to the student or the student's family in case of hardship, which is defined as (1) death of the student, (2) death in the student's immediate family, or (3) withdrawal upon recommendation of the director of student health services. The prorations and regulations governing refunds in hardship cases are available from the Office for Business Affairs. The vice-chancellor for student development must approve, and notify the controller's office, of any refunds or account adjustments for hardship situations. The controller's office will take appropriate action to make final settlement of the student's account. Any other exceptions require approval by the chancellor.

**Financial Aid**

The financial aid office administers several programs that assist students in meeting educational costs while attending Western Carolina University. Awards are offered on both the basis of need and academic promise. Most awards are renewable, provided that financial need continues and satisfactory academic progress is maintained. Applications for consideration of eligibility are filed annually at no cost to the student and family.

Entering students interested in applying for financial aid must complete the Free Application for Federal Student Aid (FAFSA). Continuing WCU students are sent Renewal Applications on an annual basis. This must be submitted as soon as possible after January 1 of each year the student will attend. Western Carolina University should be listed as a recipient of the information. The FAFSA may be obtained from the WCU Financial Aid Office or from a
In high school, guidance counselors should ensure that the application is completed accurately and complies with income tax information, as discrepancies require resubmission of information and consequent delay.

The WCU Data form will be mailed to applicants upon receipt of information from the federal processor. The applicant must return this form with all pages of the Student Aid Report (SAR) which is sent from the federal processor to the student after the FAFSA has been processed. Receipt of these two documents (the WCU Data form and SAR) generally completes the application process, providing no additional information is required. Since the most attractive sources of financial assistance (institutional grants and scholarships) are limited, applicants are encouraged to complete the application process by March 31.

Federal guidelines regarding student financial aid require that a recipient be making "Satisfactory Progress" toward a degree. A student must be progressing both qualitatively and quantitatively toward graduation within a prescribed time frame. To comply with these guidelines, Western Carolina University has defined minimum satisfactory academic progress for a full-time undergraduate student to remain eligible for financial aid according to the following table:

<table>
<thead>
<tr>
<th>Full Time Enrollment</th>
<th>At completion of this semester</th>
<th>Total minimum credits</th>
<th>Minimum required QPR</th>
<th>To remain eligible for financial aid a student must meet these minimum requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 2 3 4 5 6 7 8 9 10 11</td>
<td>9 18 28 38 50 62 75 88 101 114 120</td>
<td>1 4 15 16 17 18 19 195 20 20 20 20</td>
<td>Students are expected to complete their undergraduate degree in eight semesters (four years)</td>
</tr>
</tbody>
</table>

Notification of Awards: Notification of awards, beginning with completed applications for aid received prior to March 31, will begin May 1 and will continue thereafter. The processing time for applications is approximately six weeks.

Types of Aid: Three principle types of aid are available: (1) scholarships or grants awarded directly to the student that do not have to be repaid, (2) loans, usually long term and low interest, to be repaid after the student leaves college, and (3) employment, often work related to the student’s field of study. Composite awards frequently are made, with the total amount dependent upon the student’s individual needs and financial situation. Application forms and further information are available from the financial aid office.

Loans:

Federal Perkins Loan: These loans are awarded to undergraduate and graduate students who demonstrate financial need and meet the federal eligibility requirements. The maximum amount an eligible student may borrow is $3,000 per year as an undergraduate and $5,000 per year as a graduate. The maximum aggregate loan amount for an eligible undergraduate student is $15,000. A graduate student may borrow a maximum of $30,000 minus the amount borrowed as an undergraduate. Interest and repayment start nine months after the student leaves school or drops below half-time status. The interest rate is five percent.

Federal Stafford Loans: These government-subsidized loans are available to students through lending institutions. They are insured by a government or private guarantee agency and are available to undergraduate and graduate students who demonstrate financial need and meet the federal eligibility requirements. Depending on demonstrated need, a student may borrow up to $2,625 as a freshman, $3,500 as a sophomore and $5,500 per year for the third through fifth years of undergraduate work. Graduate students may borrow up to $8,500 per year.
year. There is a five percent origination fee with a variable interest rate based on the 91-day Treasury Bill plus 3 10% (capped at 9%). Repayment begins the day following expiration of a six-month grace period.

**Federal PLUS (Parents) Loans.** These loans provide funds to parents to help meet the cost of education. They may borrow up to the cost of education per child minus other financial aid. There is a five percent origination fee with a variable interest rate on the based 52-week Treasury Bill plus 3 10% (capped at 10%). Interest starts upon disbursement of funds. Repayment begins the date of disbursement of funds. Borrowers may not have an adverse credit history to be determined eligible.

**Federal Supplemental Loan for Students (SLS).** These loans provide funds to students to cover their college expenses in addition to those borrowed under the Stafford Loan Program. They are available to undergraduate and graduate students who meet the federal eligibility requirements and are enrolled at least halftime. Eligible undergraduate students may borrow $4,000 per year for the freshman and sophomore years and $5,000 per year for the third through the fifth years. Eligible graduate and professional students may borrow up to $10,000 per year. There is a five percent origination fee with a variable interest rate based on the 52-week Treasury Bill plus 3 10% (capped at 11%). Interest starts with disbursement of funds.

**Federal Unsubsidized Stafford Loan.** The Federal Unsubsidized Stafford Loan Program provides loans to students after their demonstrated need has been met. The maximum amounts to borrow are the same as for the subsidized Stafford. However, this loan plus other financial aid may not exceed the cost of education. There is a 6 5% combined origination and insurance fee. The interest is the same as the subsidized Stafford except that the interest is capped at 9% and the borrower is responsible for accrued interest.

**Loans for Study in Health, Science, and Mathematics.** The North Carolina State Education Assistance Authority (NCSEAA) provides loans to North Carolina residents for study in selected health, science, and mathematics disciplines. Programs at Western Carolina University to which the loans are applicable are education majors in biology, chemistry, mathematics, and physical and health sciences, other areas include medical technology and nursing.

The amount of the loan is $4,000 annually to undergraduates during their second, third, and fourth years of study, and $5,000 for graduate students for two years. Recipients agree to cancel their obligation by securing full-time employment in designated shortage areas in health or in secondary or post-secondary school systems. For more information, contact the North Carolina Student Loan Program for Health, Science and Mathematics, P.O. Box 20549, 3824 Barrett Drive, Suite 304, Raleigh, NC 27619-0549, telephone (919) 571-4182.

**North Carolina Four-Year Teaching Fellows Program.** Established by the General Assembly, this program is designed to fully subsidize the college cost of up to 400 talented highschool seniors. Recipients will receive $5,000 per year for each of their four years in college. For each year that a Teaching Fellow teaches in a North Carolina public school after graduating from college, one-fourth of the Teaching Fellows award will be forgiven by the state. Applications are available through highschool guidance offices, highschool-teacher recruiters, and the North Carolina Teaching Fellows Commission, Koger Center - Cumberland Building, 3739 National Drive, Suite 210, Raleigh, NC 27612, telephone (919) 781-6833.

**North Carolina Prospective Teacher Scholarship-Loans.** Financial assistance to full-time students in teacher education programs is available at $2,000 per academic year and may be continued for four years of undergraduate study if all prerequisites are met. Priority is given to students preparing for teaching in fields where the need is greatest. Scholarship loans are to be repaid in cash at six percent interest or by teaching in the public schools of North Carolina one year for each year of the loan.

**Nurse Education Scholarship Loan Program.** This scholarship loan program is based upon financial need to work in combination with existing financial resources. A scholarship loan may be repaid through service in the state following completion of the nursing program.
or repayment in cash plus ten percent interest from the date of disbursement. A completed Free Application for Federal Student Aid (FAFSA) is required for consideration. For additional information, contact the Financial Aid Office.

The Nurse Scholars' Program Established by the North Carolina General Assembly, this competitive, merit-based scholarship loan program is available to North Carolina students of exceptional academic achievement and leadership potential who desire to enter the nursing profession. Applications for a NSP award may be made by individuals who have been admitted to a participating nurse-education program and who meet the minimal qualifications for selection. The North Carolina Nurse Scholars' Commission selects 100 high school seniors for four-year scholarships at $5,000 per year and 25 upper-class recipients for $3,000 per year. A year of assistance may be repaid through a year of employment in a health-care agency in North Carolina.

Nursing Student Loans Nursing students having exceptional financial need are eligible to borrow the amount of their demonstrated financial need, up to $2,500 per year. Interest at six percent per year starts when repayment of the loan begins nine months after the student leaves school. Repayment may be deferred for up to three years during periods of active duty as a member of uniformed service or as a volunteer under the Peace Corps Act.

Pickett and Hatcher Educational Fund, Inc The Pickett and Hatcher Educational Fund, Inc., is a private, nonprofit, noncommercial educational trust fund created to assist full-time undergraduate students in fields of study other than law, medicine, or the ministry. Low-interest loans with deferred payments are made to qualified residents of Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee, or Virginia. The fund begins the distribution of application blanks for the next academic year on October 1. The deadline for returning the completed application is May 15. For information write to Pickett and Hatcher Educational Fund, Inc., Post Office Box 8169, Columbus, GA 31908-8169.

Wachovia Charitable Funds Bank Loan There are two separate accounts from which loans are available, the Thomas A. Case Student Loan Fund and the Lucius Lanier Memorial Funds. Applicants must reside in western North Carolina, submit a written application, and appear for a personal interview in Winston-Salem. The maximum amount of loan is $1,500 per year with a total maximum of $6,000 per recipient. Interest on the loan is 5% on the unpaid balance and repayment begins within three months after the student terminates his or her enrollment. Applications and further information are available by contacting Wachovia Bank of North Carolina Charitable Funds, P.O. Box 3099, MC 31022, Winston-Salem, NC 27150.

Grants and Scholarships

Federal Pell Grants Eligibility for assistance under the Pell Program is based on financial need as determined by a formula of the U.S. Department of Education which is applied uniformly to all applicants. Awards range from $400 to $2,300 per academic year depending upon the cost of attendance. Students who complete the Free Application for Federal Student Aid (FAFSA) are considered for Federal Pell Grant eligibility.

Minority Presence Grant Program Under the Board of Governors' General Minority Grant Program, African-American students may be eligible for special financial assistance if they are residents of North Carolina, enrolled in at least three hours of degree credit coursework, and demonstrate financial need. This grant is renewable if a GPA of at least 3.5 is earned for a minimum of 27 semester hours during the first academic year. Limited consideration is also available for recipients who earn between a 3.00 and 3.49 GPA.

American Indian Student Legislative Grant Program Under this Board of Governors' program, North Carolina residents demonstrating need who are American Indians enrolled in a tribe recognized by North Carolina are eligible. Grants are awarded in the amount of tuition. Application forms are available in the financial aid office.

Federal Supplemental Educational Opportunity Grants This program provides funds through participating educational institutions to students with exceptional financial need.
who would be unable to enter or remain in an institution of higher education without such assistance. This grant is generally awarded only to students who are Pell eligible.

North Carolina Student Incentive Grant Program: Full-time undergraduate students who are legal residents of North Carolina may apply for grants based upon demonstrated financial need. Grants may not exceed $2,000 per academic year.

North Carolina Tuition Grants: Established by the General Assembly of North Carolina, each grant covers tuition and is available to academically talented North Carolina students having need.

Patrons of Quality Scholarships: These $1,000-$2,000 scholarships are awarded solely on the basis of academic performance. Each scholarship is awarded for one year. It may be renewed annually up to three times if the student maintains a cumulative QPR of 3.5 or higher and earns at least 30 semester hours of credit per year.

Chancellor’s Scholarship Program: These scholarships are awarded to both freshmen and transfer students and are based on academic performance. Some of the scholarships are one-year awards, others are for two years, and a few are for four years. Amounts range from $1,000 to $2,000 per scholarship. More information is available in the Office of Admissions.

Advertising Federation of Western North Carolina Scholarship Fund: This endowed scholarship program, established by the federation to promote careers in advertising, provides support for rising, entering, or enrolled juniors and seniors pursuing a concentration of courses in the advertising/marketing field. Preference is given to students who demonstrate financial need, and the awards may be renewed for a total of two years.

Army ROTC Scholarships: Four-year scholarships are available to entering freshmen students through their high school guidance counselors. Three-year scholarships are available for returning sophomores and two-year scholarships are available to students eligible for advanced placement in ROTC. The scholarships are competitive and cover the cost of most tuition and fees as well as a subsistence allowance of up to $1,000 each year for textbooks, uniforms, and other educational expenses for the duration of the award. Application forms are available from high school guidance counselors and the Western Carolina University Department of Military Science.

Mary Lou Smith Albritton Scholarships: These scholarships are awarded to students majoring in social work. Renewal depends on satisfactory academic progress.

American Medical Transport Scholarship Fund: This fund is established to strengthen collegiate programs in Emergency Medical Service and to attract qualified young people into the profession. Rising junior and senior students in the Emergency Medical Care Program are eligible for this award.

Athletic Grants: Grants are made in accordance with regulations of the National Collegiate Athletic Association. For more information, contact the Director of Athletics.

Bentivogli Scholarship Fund: This scholarship was established by Sue B. Bentivogli to provide financial support for deserving students from Swain County who have financial need and who desire to continue their post-secondary education at Western Carolina University. Scholarship recipients are selected by the Director of Student Financial Aid on the basis of financial need and academic achievement.

Biology Student Fund Scholarships: This endowment, established by the faculty of the WCU Department of Biology, supports scholarships for biology students at WCU. Contact the head of the Department of Biology.

Bruce Blankenship Scholarship Fund: This scholarship program provides financial support for students pursuing a college education while working full-time. Priority consideration is given to students studying psychology, social work, business administration, or curricula in the Department of Human Services.

Taft B and Malvery Botner Scholarships: Annual awards are made to academically outstanding students to pursue careers in elementary education and reading. Scholarships are
renewable depending upon academic performance and continued promise of successful teaching. Contact the Department of Elementary Education and Reading.

Albert Dudley Brewer Scholarships. These endowed scholarships, supported by the Adelaide Louise Brewer Fund, an endowed memorial, provide assistance for students with impaired hearing. Renewal depends on satisfactory progress toward a degree.

F H. Brown Family Scholarships. This endowment, which honors the long-time relationship of the F H Brown family with Western Carolina University, provides awards to chemistry students. Selection is based on scholastic attainments and capabilities, character, and overall potential. Renewal depends upon satisfactory progress toward a degree.

Grace and David H. Brown, Sr, Scholarships. This endowment honors a former superintendent of Jackson County Schools and his wife, a Cullowhee community leader. Preference is given to visually impaired students. Renewal depends on satisfactory progress toward a degree.

Helen Ramsey Brown Scholarship Fund. This scholarship program provides financial support for students in arts and sciences. Contact the Dean of the College of Arts and Sciences.

Kim L. Brown Scholarship Fund. This award fund provides financial support to deserving students who show potential in writing. The WCU Writing Center will make recommendations based upon academic achievement and various school activities, including special writing events/topics/activities.

Bryan History Award. Established by Mrs. Virginia Bryan Schreiber and Dr. Thomas Conn Bryan, these scholarships are awarded to deserving young history students who desire to complete a baccalaureate degree program in history at WCU.

Robert A. "Art" Byrd Scholarship Fund. This scholarship fund was established through the generosity of the friends and family of Robert A. "Art" Byrd in his memory. The scholarship provides financial support for students who graduated from a McDowell County public high school and whose current permanent residence is in McDowell County, North Carolina.

The Paul Cabe Delta Sigma Phi Scholarship Fund. The purpose of this fund is to provide financial awards for deserving young brothers of Delta Sigma Phi, Delta Omicron Chapter of Western Carolina University.

Louise M. Caldwell Scholarship Fund. This endowed scholarship program provides financial support for Cherokee Indians to attend WCU. Recipients are selected by the University Scholarship Committee.

Champion Paper, Inc., Foundation Scholarships. Recipients must be graduates of Haywood County high schools or Enka High School or be a dependent son, daughter, or ward of an active or retired employee of the company. Awards are made on the basis of scholarship, need, character, citizenship, leadership, and potential to maintain required academic standards.

Patrick Lee Carmody Scholarship Fund. This scholarship fund provides financial support for qualified students in the radio-television program. The awards are based on academic achievement, civic and social activity, and contributions to student programs and activities. Renewals depend upon satisfactory progress.

Katherine Causey Award. This award provides financial support for deserving young students who live in rural areas of Alamance, Guilford, and Randolph counties or counties west of the above-named counties in North Carolina.

Wilma Cosper Scholarship. The purpose of this scholarship program is to provide financial support for deserving students who have declared a major in one of the academic programs under the Human Environmental Sciences.

The Diane Withrow Coyle Art Fund. This scholarship program, established through the generosity of the family and friends of Diane Withrow Coyle, supports WCU students who pursue drawing as a creative and formal art medium.
Crum Scholarship Fund  This endowed scholarship fund was established in honor of Joseph and Mabel Crum, former members of the WCU faculty. The fund provides support for worthy and deserving undergraduate students who are majors in mathematics or English. The awards are based on academic achievement and promise, participation in various school activities, and overall social and civic contributions. Awards are renewable.

Cullowhee School District Award  This award program provides funds for deserving young graduates of the Cullowhee school district who desire to attend WCU. Selection is based on achievement, participation in various school activities, overall social and civic contributions, and financial need.

Andrea Culpepper Scholarship Fund  This scholarship fund provides financial support for students enrolled in the nursing program. Priority will be given to rising seniors who have a grade point average of 3.0 or above.

Homer Ray Davis Scholarship  This scholarship was established to honor Homer Ray Davis, the son of Sue Morgan Davis of Jackson County. It provides scholarship assistance on a need basis to students from Jackson, Swain, and Macon Counties.

Dr. A. P. and Frances Dickson Scholarships  A scholarship is awarded annually to a full-time undergraduate student who currently resides in Hoke County, North Carolina. Recipients are chosen by the financial aid office on the basis of academic standing and financial need. Awards are nonrenewable and vary in amount according to income available from the trust.

J. Gerald Eller Scholarships  This endowment, honoring a former WCU dean and faculty member, supports awards for science students who are winners in the annual WCU Science Festival competitions.

Felts Scholarships  These endowed scholarships honoring Winston Felts are awarded to students from Mitchell County, who are majoring in music or teacher education, on the basis of academic achievement, overall civic and social activities and contributions, and financial need. Renewal is based on satisfactory academic achievement.

Ulysses H. Ferguson Family Scholarships  This endowment honors the memory of Edna Ferguson Rogers, an outstanding, dedicated teacher. It supports awards for students from Haywood County. Scholarship renewal depends on satisfactory academic progress.

Mary Woods Flinton Scholarships  This endowment, honoring a former staff member, provides scholarships on the basis of overall social, civic, and academic achievement and potential. Renewal depends on satisfactory progress.

Xena Bristol Forsyth Scholarships  This endowment honors Mrs. Xena Bristol Forsyth and her son, William Frank Forsyth. It supports renewable awards for juniors and seniors in the College of Business. Preference is given to students from Cherokee, Clay, and Graham counties. Selection is based on overall social, civic, and academic achievement and potential.

Glaxo Women in Science Scholarship  The Glaxo Women in Science Scholars endowed scholarship is established to provide scholarships for full-time women students at Western Carolina University. The purpose of the scholarship fund is to recognize outstanding scholarship, to provide an incentive for women science students to enter the science profession, and to provide students with a woman scientist mentor at Glaxo Inc. Students must have a grade point average of 3.0 or better on a 4.0 scale to be eligible to receive the award. The student’s grade point average must remain a 3.0 or better to be eligible to continue receiving the award. Recipients of the Glaxo Women in Science Scholars Program will be selected by a committee composed of the vice chancellor for academic affairs, the dean of the College of Arts and Sciences, and the director of financial aid.

Inez Wooten Gulley Scholarships  This endowment, honoring a former head of the music faculty, supports awards for music students. An audition is required. Contact the head of the Department of Music.

Gulley Talent Grants  Awards are made to talented music students based on the student's potential for contribution to the department's major performance ensembles, the needs of the ensemble and the department, and the student's financial need. An audition is required.
Student assistantships also are available for work assignments of a musical nature. Contact the Department of Music.

David McKee Hall, Jr., Scholarships These renewable scholarships are based on academic achievement, leadership ability and potential, and civic and social activities and contributions. Preference is given to students from the Eleventh Congressional District who plan to pursue the study of law or a related field.

The Lola Harwood Fund This scholarship established in memory of John Henry and Mary Ida Harwood of Swain County, provides loans and scholarships to western North Carolina students who excel academically and demonstrate successful participation in community and social organizations.

Haywood County Western Alumni Scholarships. These endowed scholarships are awarded to Pisgah and Tuscola highschool graduates. Selection is based on academic achievement, civic and social activities, school activities, and financial need.

Horatio A. and Adah G. Helder Scholarships Graduates of public highschools in Haywood County who have financial need may receive scholarships to attend Western Carolina University. Each scholarship is renewable for four years. Contact a highschool guidance counselor.

The History Department Scholarship Fund Established by the faculty in the Department of History, these scholarship awards are for students planning to pursue a major in history. Consideration for scholarship will be based on merit.

Wanda S. Hutchins Fund This fund provides financial support for students majoring in social work. Selection of the recipient will be based upon overall ability, past achievement, potential for development, and dedication to the profession.

Marshall Hyde Scholarships These renewable scholarships are awarded annually. Preference is given to undergraduate students from Graham County who have expressed an interest in working for the WCU landscaping program.

Industrial Distribution Scholarships These scholarships are awarded to students in industrial distribution on the basis of academic achievement and performance in the major. Renewals depend on satisfactory academic progress.

Jackson County Western Alumni Scholarship Fund This scholarship fund has been established by the alumni and friends of WCU in Jackson County to provide financial support for deserving young Jackson County students in baccalaureate degree programs. Scholarship recipients are selected from Blue Ridge and Smoky Mountain highschools.

Kendall W. King Scholarship Fund The purpose of this scholarship fund is to provide financial support for worthy and deserving international students. Undergraduate and graduate students are eligible for the award.

Jay I. Kneedler Scholarships Awards are made to juniors and seniors in the College of Business based on overall social, civic, and academic achievement and potential. Renewal depends on satisfactory progress toward a degree.

Nell M. Leatherwood Scholarships This endowment provides scholarships, renewable for four years, to help deserving students of Swain County. Applications are available from highschool guidance counselors.

James Lee Love Scholarships This scholarship is awarded annually to a full-time North Carolina resident undergraduate student. Recipients are chosen by the financial aid office on the basis of academic standing and financial need. Awards are nonrenewable and vary in amount according to income available from the trust.

James G. K. McClure Scholarships. This fund provides scholarships to academically promising and financially deserving residents of western North Carolina. Rural residents are given preference. The desire to be of service to one's fellow men is an important criterion.

Ernest C. McCracken Scholarships These endowed scholarships provide awards based on financial need and overall social, civic, and academic achievement and potential.
The Macon County Art Association Student Art Award  This art award program is established for the purpose of providing financial support for students studying art at WCU All Macon County, North Carolina art students are encouraged to apply

George A Milton Scholarship  Awarded to undergraduate students majoring in mathematics or mathematics education  Applicants must have scored at least a 550 on the mathematics portion of the SAT, or an equivalent score on a comparable test and maintained at least a “B” average in all highschool mathematics courses

The Mountaineer/Josephus Daniels Scholarship Award  Established by the Josephus Daniels Charitable Foundation for students from the primary circulation area of The Mountaineer newspaper  Eligibility is based upon academic record, potential for continued achievement, successful participation in school-sponsored activities, leadership ability and potential, social and civic contributions, and need  Renewals will be considered

Alice Mathews Scholarship Fund  This endowed scholarship fund was established to honor a former member of the WCU faculty, Dr Alice Mathews  The fund provides support for deserving students in the liberal arts with priority consideration given to students with a 4.0 QPR in their major  Contact the dean of the College of Arts and Sciences

Western Carolina University Association of Educational Office Personnel Scholarships  The Western Carolina University unit of the association awards scholarships to students enrolled in degree programs in the College of Business  Contact the president of the organization

Clyde M Norton Scholarships  This endowment, established by the Norton family, honors the memory of Clyde Norton, an outstanding leader in business and public affairs in western North Carolina  The fund provides support for students from McDowell County  Scholarship renewal depends on satisfactory academic progress

J. W. and Patricia Palmer Scholarships  These endowed scholarships are awarded annually to students selected on the basis of academic achievement, civic and social activities, and leadership potential  Preference is given to residents of Clay County  Scholarships cover tuition, fees, room, and board, and are renewable for four years

The Dean Carroll Plemmons Scholarship Fund  The fund has been established by the family of Dean Plemmons in recognition of his personal achievements and contributions to his profession and to society in general  The scholarship provides financial support for returning students whose records at WCU reflect sound accomplishment in the classroom, as well as successful participation in civic and social organizations

W. Hugh and Janet K Powell Scholarships  These renewable scholarships are awarded annually to students on the basis of academic achievement, leadership ability and potential, and civic and social activities and achievement  Preference is given to undergraduate students from Clay County

Jonathan Graham Pruett Scholarships  This endowment, a memorial to a former student, supports scholarships to worthy students who are active in the music program  Preference
is given to students from Surry County who are in the band. Renewal depends on satisfactory progress toward a degree. Contact the Department of Music.

The Ramsey Family Scholarship Fund This scholarship established in memory of Dr. Donald Ramsey, a Sylva optometrist, provides a full tuition award to a junior majoring in one of the preprofessional health sciences.

Bronze and Betty Ray Scholarships. These $1,000 renewable scholarships for students who live in the seventeen-county region of western North Carolina are awarded on the basis of academic achievement, participation in various school activities, social and civic contributions, and financial need.

Paul A. Reid Scholarships Grants are available to graduates of Surry County high schools to attend Western Carolina University either as undergraduate or graduate students. Applications are available from guidance counselors.

Richard and Marian Renfro Scholarships These endowed scholarships, which honor professors emeriti Richard and Marian Renfro, are awarded to students majoring in music education. The scholarships are renewable based on satisfactory academic progress.

The John and Elizabeth Rice Scholarship Fund Students who have declared a major and are working in a biology program of study are eligible for consideration. These awards are based upon academic achievement at WCU with supervision and guidance of an advisor for biological study.

The Richard Thomas Ruhlman/Sigma Nu Fraternity Scholarship Fund The endowed fund was established in memory of Richard Thomas Ruhlman, a former student of WCU. The purpose of the scholarship fund is to provide financial support to a qualified and deserving brother of the Sigma Nu Chapter at WCU.

The John and Elizabeth Rice Scholarship Fund Students who have declared a major and are working in a biology program of study are eligible for consideration. These awards are based upon academic achievement at WCU with supervision and guidance of an advisor for biological study.

The St. David's Award. Established by Carl Richard Hill and the vestry of Saint David's Episcopal Church of Cullowhee, this fund provides financial support to deserving young people who have earned an associate degree at a technical college and who desire to pursue a baccalaureate degree program at WCU.

Jessie Siler Sloan and Georgia Neville Sloan Scholarships Awards, one to a junior and one to a senior in the College of Arts and Sciences, are made on the basis of academic achievement and financial need. Preference is given to residents of Macon County, N C.

Lewis J. Smith Scholarship Fund These endowed scholarships, which honor Lewis J. Smith, a founder of the Cullowhee School and the first chairman of the board of trustees of Cullowhee School, are awarded to students who are majors in history or education.

C D. Spangler, Jr., Scholarship for Minority Students This endowed scholarship program's purpose is to provide financial support for deserving young minority students. Awards are based upon high academic achievement, successful participation in various school activities, overall social and civic contributions, and financial need.

Sport Management Student Professional Association Scholarship This scholarship is awarded annually to a currently enrolled sport management major who is active in the association and has exhibited dedication and professionalism. The student must maintain a minimum cumulative 2.7 quality point ratio. Current award level is $100 per semester.

State Employees' Association of North Carolina Scholarships State employees, their spouses, and their children who have financial need and demonstrated academic potential are eligible for these awards. Contact the financial aid office.

C M. and M D. Suther Scholarships These nonrenewable scholarships are awarded annually to North Carolina resident undergraduate students on the basis of academic standing and financial need.

The Rachel R. Williams Sweet Scholarship Fund The fund has been established for the purpose of honoring Rachel R. Williams Sweet, a 1935 graduate of WCU, and to provide...
financial support to undergraduate students who have expressed an intention to pursue early childhood education as their major course of study

Roy A. Taylor Scholarships. Scholarships are awarded on the basis of a university-sponsored competition in debate, persuasive speaking, and extemporaneous speaking. Contact the head of the Department of Communication and Theatre Arts.

Veterans Administration Programs. Most veterans who served on active duty for more than 180 days, any part of which occurred after January 31, 1955, are generally eligible for financial support. Before communicating with the university about these benefits, prospective recipients should make inquiries and complete all requirements at their local Veterans Administration Office.

Vocational Rehabilitation Assistance. Assistance covering fees, books, and supplies are provided. To be eligible, an individual must have a disability that interferes with employment, show reasonable promise of becoming suitably employed within an acceptable period of time, and be of, or close to, working age. Further information can be obtained from local Vocational Rehabilitation offices.

War Orphans Education Assistance Act. Sons and daughters of deceased veterans and of totally disabled veterans who are 18 through 26 years of age are eligible for financial aid if the death or disability of the parent was a result of service in the armed forces. Local Veterans Administration offices can supply complete details.

Robert L. (Bob) Waters Leadership Fund. This graduate and undergraduate assistantship program in football provides support for students who have completed eligibility for participation in intercollegiate athletics. Contact the Department of Athletics.

Pi Kappa Alpha/Robert L Waters Scholarship Fund. This scholarship program is a memorial to Robert L. Waters for his outstanding leadership at Western Carolina University and in the Zeta Xi Chapter, Pi Kappa Alpha Fraternity. Recipients are selected on the basis of academic achievement, participation in school and community activities, demonstrated social and civic contributions, and financial need.

Western Alumni Scholarships. Freshmen are eligible for these scholarships, which are awarded by the Alumni Association solely on the basis of high school academic performance.

Myrtle Olivia Whitmire Scholarships. Students who are residents of North Carolina and who are planning careers in early childhood education are eligible for annual awards. Renewal depends on the student's academic performance.

Max and Sarah Williams Scholarship Fund. This fund was established to support scholarship awards for students who are pursuing a major in the Department of History. The purpose of these awards is to support the History Department's commitment to the pursuit of academic excellence.

Employment

Federal Work-Study Program. Employment is available to eligible students to help them pay for college expenses. An effort is made to assign students to work related to their fields of study or to use their special interests and skills.

Graduate Assistantships. Stipends of $1,000 to $5,000, depending upon the assignment involved, are awarded to qualified graduate students through the Graduate School.

Resident Assistants. Positions as assistants in the residence halls are available to qualified undergraduate students. Contact the Housing Office.

Other Part-time Work Opportunities. A part-time job placement service for students is operated in the CAP Center. All job opportunities on the campus are filed with, and recruited for, through the placement office. Students should file an application with the placement office and periodically check the posted vacancies.
ADMISSION

Applications for undergraduate admission should be addressed to the Office of Admissions. Inquiries about graduate admission should be directed to the Graduate School. More information on graduate admission will be found in the Graduate School section of this catalog.

Campus Visit Prospective students and their parents are welcome on the campus. A visit enables them to visualize more fully the meaning of attending the university, especially if classes are in session. An appointment should be made to visit with a member of the admissions staff. Visits should be scheduled between 8:00 a.m. and 5:00 p.m., Monday through Friday, and by appointment only on Saturday. For more information, call the Admissions Office at (704) 227-7317.

Applications

Applicants for undergraduate admission must submit (1) a completed application form, (2) application processing fee (see p. 24), and (3) complete academic records as described below in "Categories of Undergraduate Admission." The application fee covers the cost of processing the application and is not refundable or applicable toward other charges and payments.

Admitted applicants must complete the medical form supplied by the admissions office. All materials submitted, including transcripts, become the property of the university and cannot be forwarded or returned.

Admission Dates Applications may be made for admission to regular terms beginning in August and January, and to summer sessions beginning in May and July. To assure timely processing and to avoid payment of a late registration fee, a completed application should be submitted at least 30 days before the beginning of the semester for which admission is desired. Application deadlines for fall admission vary with a student's status and are listed in the following pages.

Early Registration for New Students Students admitted to the university as undergraduates who plan to begin their enrollment in the fall semester are urged to attend one of the orientation conferences held each summer. During each two-day conference, the new student is given a general introduction to the university and campus life. In an individual appointment with an academic adviser, the student is assisted in selecting courses and registering for them. A special program of activities for parents of new students is available during each conference.

Undergraduate Admission

The university is open to all qualified students without regard to race, sex, color, national origin, religion, age, or handicap and is actively committed to recruiting and enrolling greater numbers of African-American and other minority students.

Freshman Students

Admission to Western Carolina University and placement into courses and programs are based upon a variety of factors including courses taken in high school, rank in class, SAT or ACT scores, recommendations from school counselors, principals and/or teachers, and placement tests at Western. Applicants must be graduates of accredited high schools. Graduates of unaccredited high schools may satisfy entrance requirements by examination. The university reserves the right to require any conditions deemed necessary. Applications also are considered for admission from prospective students who have achieved high school graduation equivalency by means of Tests of General Education Development (GED).

Entrance Examinations Freshman applicants must take the Scholastic Aptitude Test (SAT) or the American College Test (ACT). The achievement test in subject-matter fields is not required. Application forms and information concerning the test fee, dates, and centers may
be obtained from the College Board, P.O. Box 592, Princeton, N.J. 08541 for the SAT, Information and application for the ACT may be obtained from The American College Test National Office, P.O. Box 168, Iowa City, IA 52243, and from high school guidance counselors. Applicants must request that their scores be sent to the Office of Admissions, Western Carolina University, Cullowhee, NC 28723 (College Code 5897) and (ACT Code 3172).

Secondary School Preparation. The quality and content of the applicant's high school program are important. A good background in English, mathematics, foreign language, social studies, and natural sciences is recommended. Students with inadequate preparation in English and mathematics, if admitted, will be required to complete additional work in these areas.

To be considered for any category of admission, students must have graduated from high school and successfully completed the following 12 units of college preparatory courses in high school:

- 4 units of English
- 2 units of algebra
- 1 unit of geometry or advanced math
- 3 units of science including
  - 1 unit of a life or biological science
  - 1 unit of a physical science
- 2 units of social studies including
  - 1 unit in U.S. history

In addition, it is highly recommended that students complete at least two years of a foreign language in high school.

There are two categories of freshman admission to Western: honors admission and regular admission.

Honors Admission. Students who rank in the top 10 percent of their high school class or who have an 'A' average in a college preparatory curriculum and who have a total SAT score of 1150 or higher are invited to apply for the honors curriculum. Other factors considered in the admission decision include advanced placement courses, recommendations, and leadership potential.

Honors courses are taught by the honors faculty, students admitted to the program are advised by the director of the honors program. The honors program provides students the opportunity to take rigorous courses and to participate in independent projects with honors faculty. Prospective honors students are encouraged to apply and compete for academic scholarships.

To be considered for the honors curriculum and for competitive scholarships, applications for admission and for competitive scholarships must be completed by February 1.

Provisional Admission. Students whose high school records and test scores do not qualify them for regular admission but who show some potential for successful college work may be considered for provisional admission to the university upon recommendation from their high school counselor and/or principal. Students admitted into the provisional category still must meet all Minimum Admission Requirement courses prior to enrollment. An applicant's high school records and ACT or SAT scores will be the primary information used to determine admission. The applicant must demonstrate the aptitude and motivation necessary to be able to successfully complete between 12 and 16 semester hours of college course work in the first semester of enrollment.

Admitted students will take placement tests during orientation. Depending upon placement, some courses in the first semester may not apply toward the 120-128 semester hours required for graduation.

The provisional admission program features additional peer tutoring and small, clustered classes that are designed to ease the transition from high school to college.
Regular Admission  Students who rank in the top 50 percent of their class (or who have a 'C' average in a college preparatory curriculum) and whose SAT score is equal to or higher than 350 on each part of the test or whose ACT composite score is 19 or higher are normally admitted and placed into the regular freshman course sequence. Placement tests in writing skills, mathematics, and foreign languages are given during orientation to identify students who may be exempted from introductory courses or who may qualify for advanced standing. The placement tests also determine the need for additional preparation in writing and mathematics before pursuing the regular course sequences in freshman English or freshman math.

Application for admission should be completed no later than May 1 for the fall term.

Minimum Admissions Requirement at the Sixteen Institutions of The University of North Carolina  For the class of 1990 and beyond, the following courses will be required for admission, in addition to an institution's own specific requirements: in English, four course units emphasizing grammar, composition, and literature; in mathematics, three course units including algebra I, algebra II, and geometry, or a higher level mathematics course for which algebra II is a prerequisite; in science, three course units including one unit in a life or biological science (for example, biology), one unit in a physical science (for example, physical science, chemistry, or physics), and one laboratory course, and in social studies, two course units including one unit in U S history, but an applicant who does not have the unit in U S history may be admitted on the condition that at least three semester hours in that subject will be passed by the end of the sophomore year.

In addition, it is recommended that prospective students complete at least two course units in one foreign language and take one foreign language course unit and one mathematics course unit in the twelfth grade.

"Course units" as defined in these requirements may include those highschool-level courses taken and passed by an applicant after graduating from highschool, as well as those taken while enrolled as a high-school student.

Pre-University Honors Program This program enables highschool students who have completed the junior year with superior academic records to begin work toward a university degree. Students who qualify may enroll in and earn credit for selected freshman courses.

Full information is available from the Office of Admissions.

Transfer Students

Applicants must have official transcripts, with statements of honorable dismissal, submitted by all institutions formerly attended. The applicant must meet freshman admission requirements and submit an official highschool transcript with SAT or ACT test results. If a transfer student failed to meet the Minimum Admissions Requirement (see page 41), the student must earn six semester hours of transferable credits in each of the following subjects prior to enrolling at WCU: English, math, science, social science. Transfer applications should be submitted by July 1 for fall admission and at least 30 days prior to the beginning of spring or summer terms.

Transfer students must have earned a minimum grade point average (GPA) of 2.00 (C average) on all work attempted and on courses attempted in their most recent term. A student on probation at another institution or one whose grade point average is such that the student would be on probation if the credits had been earned at Western Carolina University, if admitted, may be accepted only on academic probation. The specific conditions will be stated in the letter of admission. Applicants who are ineligible to return to the last institution attended for any reason cannot qualify for admission.

Students transferring from any unaccredited institution, if admitted, will be placed on academic probation and may be permitted to validate transfer credits by attaining satisfactory grades at Western Carolina University. Normally, a minimum GPA of 2.30 on the first 12
semester hours attempted will be required. The conditions for validation will be indicated at the time of admission.

The academic records of transfer students will be evaluated by an admissions officer and the department head of the student's major. University policies on transfer of undergraduate credit are explained in the section of this catalog on academic regulations.

Former Students

Readmission of former students is not automatic. Undergraduates who were not enrolled at the university in the immediately preceding semester (excluding summer terms) must apply for readmission. Applications with all documents supporting the request for readmission must be submitted 30 days prior to the beginning of the term in which further enrollment is planned. Transcripts of work taken at any other colleges during the interim must be submitted. Former students who have attempted course work at another institution since their enrollment at Western also must meet transfer admission requirements.

Former students who are not in good standing at the university also must be approved for readmission by the Committee on Admission, Readmission, and Retention. They should review the academic re-evaluation and two-year rule policies in this catalog before applying.

Post-Baccalaureate Students

Graduates of accredited four-year institutions may apply for admission to work toward another undergraduate degree. The general requirements for second degrees are stated in the section of this catalog on degree programs and requirements. Students seeking to pursue advanced degrees should refer to the Graduate School section.

International Students

International students are welcome at the university. Students must apply for admission and submit all credentials sufficiently in advance of the first term of enrollment to allow for evaluation thirty days before the beginning of that term. A satisfactory score (550 or higher) on the Test of English as a Foreign Language (TOEFL) and evidence of financial responsibility are required. Students may enroll in the university's English courses, English 136, English 101F and 102F, which are specifically designed for international students. Further information is available from the Office of Admissions, Graduate School, or the international student adviser in the Office for Student Development.

Other Eligible Persons

Special Students. Persons not seeking degrees may enroll as special students by completing an application and the nondegree intent form and paying the $20.00 application fee. High-school students seeking to enroll as special students also must have written recommendations from their highschool principals or guidance counselors. Persons who plan to meet teacher certification requirements must provide transcripts of all college work attempted.

Extension Students. Individuals may enroll in extension courses with the approval of the coordinators of the courses. An extension student who later desires to enroll in courses for degree credit must meet regular admission requirements.

Transient Students. A student interested in enrolling for a semester or a summer session before returning to another institution may be admitted as a transient. A statement of good standing at the former institution and a statement from the student’s dean indicating the acceptability of the credits to be earned at Western Carolina University are required.

Persons over Age Sixty-five. Legal residents of North Carolina aged sixty-five and over who qualify for admission may enroll in courses on a tuition-free basis if space is available.
Information about admission and registration policies and procedures may be obtained from the registrar.

Special Consideration Persons of above-average ability who do not meet admission requirements in any category may request special consideration by submitting a letter of explanation and supporting information. However, regular admission guidelines are regarded as sound for the student and the university. Few exceptions are made.

Appeals of Admissions Decisions
Admissions decisions may be appealed by presenting a written request for reconsideration to the Committee on Admission, Readmission, and Retention through the Director of Admissions. The request should indicate the reasons for reconsideration and any factors the applicant feels were not given adequate consideration in the admissions process. Upon receipt of a written request, the Director of Admissions will present the application, supporting information, and the appeal to the Committee on Admissions, Readmissions, and Retention. Applicants will be notified of the committee’s decision. Decisions of the committee are usually final. When discrepancies and/or further mitigating circumstances exist, appeals may be heard in the Office of Academic Affairs.

Summer School Admission
All policies in effect during the regular academic year are applicable to summer school. Further information is available upon request from the Summer School Office, Graduate School, or Office of Admissions, and in the Summer School Catalog/Schedule, issued each spring.
ACADEMIC REGULATIONS

Each annual General Catalog Issue of *The Record* becomes effective at the opening of the summer term. To receive a degree, a student must complete satisfactorily all requirements of the catalog in effect at the time of first enrollment. A student who leaves the university for a period of one calendar year or longer and then returns to the university will be required to meet the requirements in effect at the time he returns. A student who changes to another major will be required to meet the requirements in effect at the time of the change. A student who takes longer than seven years to graduate may become subject to current catalog requirements. Exceptions to these policies may be necessitated by changes in course offerings, degree programs, or by action of authorities higher than the university, but every effort will be made to avoid penalizing the student.

By exercising a written option, a student may choose to graduate under the terms of a catalog in effect at a time later than provided for above. Option forms are available in the deans' offices.

Courses listed in the catalog are offered at times appropriate for maximum availability to students. Listings for each term are prepared well in advance. The university reserves the right to withdraw a course if registration is insufficient to justify offering it at the time planned.

Every effort has been made to assure the accuracy of this catalog to the extent possible at press time. However, changes in or elimination of provisions contained herein on any and all matters, including courses, course descriptions, designations of faculty, fees and other charges, admission and degree requirements, and academic policies and procedures, may be made and applied before the next catalog is published. Students should contact the appropriate department head, dean, or other administrative officer for current information.

Scholastic Status Check Each student is expected to know the information in the catalog and to verify that qualitative and quantitative requirements for a particular class rank and for proper progress toward graduation are being met. All students should check official records periodically to confirm their status. The university does not assume responsibility for the student's unexpected failure at the last minute to meet all requirements for graduation, whether failure is due to misunderstanding or negligence concerning those requirements or to an inability to meet them.

Registration

Registration takes place on designated days at the beginning of each semester and summer term. Students already enrolled also may register early for the next term during each regular semester. New students who attend one of the summer orientation sessions are registered for the following fall semester during the conference.

Late Registration Except under special conditions, no student is permitted to register or add courses after the last day of late registration as announced in the academic calendar. A late registration fee will be charged.

Credits, Grades, and Quality Points

The basic unit of credit is the semester hour. A semester hour represents one lecture-recitation hour or a minimum of two laboratory hours a week for a semester. In experiential courses, a minimum of three hours is required per hour of credit.

Course Load for Undergraduates The minimum full-time course load during a fall or spring semester is 12 hours. A normal load is 16 hours, however, a student may take up to 19 hours. Any schedule that exceeds 19 hours constitutes an overload and must be approved by the student's adviser and the appropriate administrators as indicated on the request and approval form. Twelve hours is the maximum that may be earned in experiential courses during a semester. Course load regulations for the summer session are published in the *Summer School Schedule of Classes*.
Classification. Regular degree-seeking undergraduates are classified based upon cumulative hours earned:

- **Freshman**: 0-29 hours
- **Sophomore**: 30-59 hours
- **Junior**: 60-89 hours
- **Senior**: 90 or more hours

Grading and Quality Point System*

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Quality Points per Semester Hour</th>
<th>Grade</th>
<th>Interpretation</th>
<th>Quality Points per Semester Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4</td>
<td>S</td>
<td>Satisfactory</td>
<td>--</td>
</tr>
<tr>
<td>B</td>
<td>Highly Satisfactory</td>
<td>3</td>
<td>U</td>
<td>Unsatisfactory</td>
<td>--</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
<td>2</td>
<td>W</td>
<td>Withdrawal</td>
<td>--</td>
</tr>
<tr>
<td>D</td>
<td>Poor but passing</td>
<td>1</td>
<td>AU</td>
<td>Audit</td>
<td>--</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
<td>NC</td>
<td>No Credit</td>
<td>--</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*See Graduate Catalog Issue for the graduate level grading system

Students must be familiar with the class attendance, withdrawal, and drop-add policies and procedures.

**Incomplete.** The instructor may grant a student an I grade for work not completed if there is a reasonable prospect that the student can pass the course by making up the work missed, if the incompleteness is unavoidable and not caused by the student's negligence. All incomplete grades must be removed and a grade of A, B, C, D, F, S, or U must be submitted to the Registrar. The work must be made up and a grade received by the registrar by the last day of classes of the next regular semester, or the grade will become an F. A student may not re-register for the course until the I is removed or changed to an F. The instructor is required to list the conditions to remove the I and send them to the department head. If the instructor is no longer employed by the university, the department head will remove the I upon completion of the stated requirements. In extenuating circumstances, students should refer to the Academic Appeals Procedure section in The Record.

**In Progress.** In progress grades are assigned only in selected courses which have been approved for IP grading. Courses in which IP grades are assigned must be completed by the end of the following regular term or the grade will become an F.

**Satisfactory-Unsatisfactory.** S/U grading is limited to courses in which standard or traditional grading is rendered difficult by the nature and purpose of the courses. There is no limit on the credit hours a student may earn in S/U grades except that imposed by the types of courses approved for such grading. S/U grades may not be awarded in courses unless specified in the course descriptions in this catalog and in the master class schedule. S and U are the only grades assigned in these courses. Neither grade is used in calculating the GPA, but an S allows hours of credit while a U does not.

**Audit.** When space is available, a registered student may audit a course with the approval of the advisor, the instructor, and the head of the department offering the course. A completed course audit form must be submitted in order to enroll. Change from audit to credit, or the reverse, is permitted only during the regular schedule adjustment period. No credit is earned for auditing, but the audited course must not add hours in excess of the student's maximum load. An audited class will be noted on the student's transcript. Participation in class activities is optional with the instructor. Tuition and fees for audited courses are determined by the hour value of the courses.

**Final Grade Changes.** When a grade other than Incomplete is reported officially by an instructor at the end of a term, the grade is recorded and can be changed only if an error was made in estimating or reporting it. The instructor will, with the approval of the department head, report the error in writing to the dean with a recommendation about the action to be
Withdrawal Policies and Procedures

A student may find it necessary or advisable to withdraw from one or more courses during a term. In some cases, he/she may find it necessary to withdraw from the university.

Course Withdrawal. After consultation with the academic advisor and the instructor of the course, a student may withdraw from any course prior to the expiration of one-half of the term and receive a W. A completed withdrawal form must be presented to the registrar for posting.

After one-half of a term, a W will be assigned only for written verifiable health, medical, or legal reasons. This verification must come from a Western Carolina University physician, Counseling and Psychological Services staff, or from an official of a court of law. If withdrawal from a course is approved by the course instructor, the department head, and the student's advisor, the withdrawal form will be submitted to the registrar by the department for posting. In extenuating circumstances, students should refer to the Academic Appeals Procedure section in The Record.

UNIVERSITY WITHDRAWAL. To withdraw from the university (i.e., drop all courses), a student must:

1. Obtain a withdrawal form from the Office for Student Development,
2. Obtain all the required signatures on the withdrawal form,
3. Return the completed form to the Office for Student Development.

If an emergency prevents a student from completing the withdrawal process before leaving the campus, the student should call, write, or arrange for a friend or relative to contact the Office for Student Development.

Any time a student is forced to withdraw from the university during a term for health, medical, legal, or administrative reasons which are verified in writing, a grade of W will be assigned in all courses in which the student is registered. If a student withdraws from the university for other than health, medical, legal, or administrative reasons after one-half of the total class time has elapsed, an F, W, or I grade will be assigned by the instructor according to the following guidelines:

1. A W grade will be assigned if the student is passing or if the student's progress has not been evaluated.
2. An I grade will be assigned if the instructor agrees that there is a reasonable prospect that the work can be made up and agrees to allow the student to do so.
3. An F grade will be assigned if the student is failing.

Current policies and procedures pertaining to grades, indebtedness, and refunds are applicable upon withdrawal from the university. A student who withdraws from the university either during or at the end of a term for any reason is responsible for clearing any indebtedness in the housing office, bookstore, financial aid office, controller's office, library, office of public safety, academic departments, and infirmary.

Academic Appeals Procedure

Students who feel that they have been treated unjustly by an instructor in any matter pertaining to their academic work normally shall appeal first to the instructor. If necessary, an appeal then may be addressed to the instructor's department head and next to the dean. The student may consult any administrator in beginning the process, but only the instructor can change a grade.

After appealing to the instructor, department head, and dean, the student may appeal to the Academic Problems Committee. This committee hears student grievances arising from
academic matters and makes recommendations to the Office for Academic Affairs. A student who wishes to do so may appeal the vice-chancellor's decision to the chancellor. Information about the composition and procedures of the Academic Problems Committee is available in the Faculty Handbook or in the Office for Academic Affairs.

Academic Honesty Policy. Western Carolina University, as a community of scholarship, is also a community of honor. Faculty, staff, administrators, and students work together to achieve the highest standards of honesty and integrity. Academic dishonesty is a serious offense at WCU because it threatens the quality of scholarship and defrauds those who depend on knowledge and integrity. Academic dishonesty includes:

A. Cheating: Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.
B. Fabrication: Intentional falsification or invention of information or citation in an academic exercise.
C. Plagiarism: Intentionally or knowingly representing the words or ideas of someone else as one's own in an academic exercise.
D. Facilitation of Academic Dishonesty: Intentionally or knowingly helping or attempting to help someone else to commit an act of academic dishonesty, such as knowingly allowing another to copy information during an examination or other academic exercise.

For specific information on procedures for cases involving allegations of academic dishonesty, see relevant sections in the Student Handbook.

Transcripts. Transcripts are furnished, either to the student or by mail, only after accounts are cleared and only upon the student's written request, which must include the student's signature and student identification number. There is no charge for transcripts issued.

The forgery of transcripts and diplomas or the use of such documents with intent to defraud is illegal under North Carolina law. Appropriate action will be taken.

Student Academic Record Policy. The university complies with the appropriate portion of the Family Educational Rights and Privacy Act of 1974 and recognizes the right of students to inspect their educational records, ask for interpretations, and request correction of errors. The full statement about records maintained and policies concerning them is available from the registrar.

Academic Standing

A student's academic standing during any term is determined by the cumulative grade point average (GPA) earned on the total quality hours. To be in good academic standing, a GPA of 2.00 must be maintained. A student who is not in good academic standing is not eligible for graduation.

Students on academic warning or academic probation are eligible to attend the university under specified provisions but are not in good standing.

Quality Points and Grade Point Average. A quality point is the numerical value assigned to a letter grade. The quality points earned in a course are determined by multiplying the quality point value of the grade earned by the credit-hour value of the course. The GPA is determined by dividing the total number of quality points by the total number of semester quality hours.

The credit hours earned in all of the university's off-campus, degree-credit courses are awarded quality points on the same basis as courses on the Cullowhee campus.

Quality Hours. "Quality hours" refers to the total credit-hour value of all Western Carolina University courses in which a student has regularly enrolled and earned grades of A, B, C, D, and F.

Transfer Hours. "Transfer hours" refers to the total credit-hour value of courses accepted toward a degree not earned by regular enrollment in Western Carolina University courses.
This includes hours earned through (1) transfer of credit from other institutions, (2) military service courses, and (3) credit for experiential learning.

**Academic Honors**

The GPA for honors is computed only on work completed at Western Carolina University.

**The Deans' List** To be on the deans' list each semester, a student must have a GPA of 3.50 or higher on a regular semester's work of not less than 12 hours, excluding remedial courses, with no grade of D or F.

**Graduation with Honors** To graduate *summa cum laude*, a student must have earned a minimum GPA of 3.90 on quality hours attempted at Western Carolina University for the degree, to graduate *magna cum laude*, a GPA of 3.70, and to graduate *cum laude*, a GPA of 3.50. In case of transfer hours from other institutions, a student must earn the appropriate GPA in all courses taken at Western Carolina University in order to graduate with honors.

To be designated University Scholars, students must have enrolled as freshmen and completed their entire undergraduate careers at Western Carolina University with a GPA of 3.90. Students who meet this requirement, except for courses taken with permission at other institutions as transients, are eligible for designation as University Scholars.

To be awarded an honors degree, a student must have successfully completed the Honors Program. With the appropriate GPA, a student receiving an honors degree will also receive the designation *cum laude*, *magna cum laude*, or *summa cum laude*.

The names of students graduating with honors must be jointly passed upon by the vice-chancellor for academic affairs and the registrar.

**Retention Policy for Undergraduates**

Good academic standing means that a student has earned an overall C or better average (2.0 grade point average on a 4.0 scale) on courses taken at Western Carolina University. If a student's cumulative grade point average falls below 2.0, the student is not in good academic standing, and a notice to that effect will appear on all grade report forms and registration cards.

To be eligible for financial aid and participation in some extracurricular activities, full-time students must pass a minimum of 12 semester hours of work, applicable to the degree programs that they are pursuing during each regular term in which they are enrolled. In addition, they must meet the university's requirements for minimal progress or retention.

Eligibility for continuation in, or readmission to, the university does not guarantee eligibility to continue in all of the programs of study offered. Students should refer to the appropriate program sections of this catalog and consult the department head of their proposed major concerning specific admissions and satisfactory progress requirements for retention in the programs.

Students who are in academic difficulty will receive one of the following messages on their grade reports: *Academic Warning*, *Academic Probation*, or *Academic Suspension*. These messages are determined by one of the following:

<table>
<thead>
<tr>
<th>Quality Hours and Transfer Hours</th>
<th>A student is on Academic Warning when GPA is</th>
<th>A student is on Academic Probation when GPA is</th>
<th>A student is on Academic Suspension when GPA is</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 19</td>
<td>1.99 - 1.50</td>
<td>1.49 - 0.51</td>
<td>0.50 or lower</td>
</tr>
<tr>
<td>20 - 29</td>
<td>1.99 - 1.60</td>
<td>1.59 - 1.31</td>
<td>1.30 or lower</td>
</tr>
<tr>
<td>30 - 59</td>
<td>1.99 - 1.86</td>
<td>1.85 - 1.51</td>
<td>1.50 or lower</td>
</tr>
<tr>
<td>60 - 89</td>
<td>1.99 - 1.94</td>
<td>1.93 - 1.76</td>
<td>1.75 or lower</td>
</tr>
<tr>
<td>90 - 116</td>
<td>1.99 - 1.97</td>
<td>1.96 - 1.91</td>
<td>1.90 or lower</td>
</tr>
<tr>
<td>117 or more</td>
<td>-</td>
<td>-</td>
<td>1.99 or lower</td>
</tr>
</tbody>
</table>
Students will be on academic probation if they have been on academic warning for two consecutive regular terms. Students will be on academic suspension if they have been on academic probation for two consecutive regular terms.

**Academic Warning** Students on academic warning may carry no more than 16 semester hours during any regular term. They should consult with their academic adviser and take advantage of university support services.

**Academic Probation** Students who are on academic probation must achieve a cumulative GPA of 2.0 or meet the conditions outlined below to be eligible to continue enrollment at Western.

1. Attain a 2.3 or better grade point average on a minimum of 12 semester hours during the regular semester or 6 semester hours for summer school.
2. Carry no more than 15 semester hours.

Failure to meet these or any other stipulated conditions will result in academic suspension.

**Academic Suspension** A student whose grade point average and hours place him or her under academic suspension is no longer eligible for enrollment in the University. After one suspension, a student is ineligible to enroll at WCU before one regular semester has elapsed. Upon being suspended twice, a student is ineligible to enroll at WCU until two regular semesters have elapsed. Subsequent suspensions will cause a student to be ineligible to enroll at WCU until two calendar years have elapsed, at which time the student may ask that the two-year rule be applied.

Appeals for reinstatement without having to serve a specified period of suspension are considered by Academic Affairs and by the Admissions, Readmissions, and Retention (ARR) Committee of the Faculty Senate. The ARR Committee's decision is based upon the student's written request for reinstatement and his/her previous academic record. Requests for reinstatement must be submitted to the Office of Academic Services as explained in the suspension letter.

A student whose appeal for reinstatement is approved will be designated as "Suspended/Reinstated" on his or her academic record. Each successful appeal resulting in reinstatement will be counted as part of the student's total number of suspensions. A reinstatement will be included with subsequent suspensions in determining the length of time a student is ineligible to enroll in the University.

**Readmission After Suspension** Students who have been out the required amount of time may apply for readmission in the same manner as other former students. See the "Admission of Former Students" in this catalog.

**Repeat Course Policy for Undergraduates**

A course previously taken for credit may be repeated only once at the university, except that if a student fails a course being repeated, the course may be scheduled again until it is passed. The student must complete the Repeat Course Request form each time a course is repeated.

A student is to be allowed to repeat a maximum of five courses but no more than fifteen semester hours in which the initial attempt is exempted from GPA computation. After the five-course or fifteen-hour maximum, the hours attempted will be used to compute the student's GPA.

If a course is repeated once for credit, only the quality points and the hours earned the last time the course was taken will be used in computing the student's GPA. When a course is repeated more than once, the quality hours and grades earned each time the course is repeated will be counted in computing the student's GPA. Courses taken after graduation will not affect the degree GPA. Neither a repeated course nor a grade is removed from the student's transcript. It is the student's responsibility to detect and report a needed adjustment to the academic record.
Academic Re-evaluation Policy

To be eligible to elect an academic re-evaluation, a student must have a cumulative GPA below 2.00 and must have made a GPA of 2.30 or better on 12 or more hours of work for each of two successive semesters, one of which may be summer school. At least 18 hours of the work taken in the two semesters must apply to general education requirements or the requirements in the major, if these have not been met already. A written request for re-evaluation is required.

To be eligible to graduate after re-evaluation, a student must complete at least two semesters in residence. No course passed with a D grade prior to these two semesters will count toward the 128 hours required for a degree. Such courses may be used to waive general education requirements but not to fulfill major requirements.

The student's GPA for retention and graduation will be computed only on work taken during and after the two semesters on which re-evaluation is based. However, the number of hours previously passed with a grade of C or higher will be counted as earned hours.

This policy does not alter the administration of the two-year rule policy.

Two-Year Rule Policy

An undergraduate with a GPA below 2.00 who has not attended the university for two or more calendar years and who is eligible for readmission is given the option of having the two-year rule applied or not applied.

If the two-year rule is applied, all courses completed before the interruption are treated as if they were transferred from another institution. No hours of credit will be allowed for courses in which D grades were earned, although, at the discretion of the student's major department, they may be used to waive appropriate course requirements. The student's cumulative GPA will be based on courses attempted after readmission. The earned hours will include all credits (1) transferred from other institutions, (2) completed with a grade of C or higher before the two-year rule was applied, and (3) earned after the last two-year rule was applied.

If the two-year rule is not applied, the student will return with a cumulative GPA, credit hours, and grades as if the interruption had not occurred. The quality point deficit of some students may be of such a magnitude that the application for readmission from a student who has chosen not to apply the two-year rule may be rejected.

A student, having elected to have the two-year rule applied or not applied, may not reverse the option later. Applications for the two-year rule may be obtained from the registrar and submitted to that office prior to the initial term of re-enrollment.

Credit and Placement Policies

Evaluation of transfer, CLEP, and advanced placement credits are coordinated through the Office of Admissions. The university will accept or transfer appropriate undergraduate credits earned through credit by examination, advanced placement, CLEP, correspondence courses, extension courses, armed forces service schools, and college-level courses completed prior to graduation from high school. With the approval of the appropriate academic departments, the amount of such credit which may be applied toward a degree is subject to limitation only by the university's general residence requirement and the prescribed courses in the major field of study and degree program. Credit toward a degree is not awarded for Continuing Education Units or for General Education Development tests (GED).

Transfer of Credit

A preliminary evaluation of credits offered in transfer is completed after admission. The final evaluation is made after all official records are received directly from each institution.
previously attended The applicability of transferred credits toward degree requirements is
determined by the college in which the student majors In some cases, due to accreditation
standards, validation of a course by successful completion of more advanced work in the
same discipline or by examination may be required

Only work passed with a grade of C or better may be transferred Grades from other grading
systems that are equivalent to a C or better may be transferred No credit will be allowed
toward graduation or toward fulfillment of major requirements for a course passed with a D
at another institution, but these courses may be used to waive a general education require-
ment Credit will not be awarded for courses determined to be below the collegiate level at
Western Carolina University Undergraduate credit will not be awarded for graduate-level
courses

A minimum of 30 semester hours at the junior-senior level applied toward a bachelor's degree
must be earned through regular enrollment in Western Carolina University courses, including
a minimum of 12 hours in junior-senior courses in the major field

In addition to those credits accepted as equivalents of the university's freshman and
sophomore courses, a maximum of 30 hours of credit may be allowed toward graduation for
freshman and sophomore courses completed at other institutions which are normally offered
above the sophomore level at Western Carolina University

There is no time limit on the course work accepted for undergraduate transfer credit
However, students who plan to schedule courses with stated prerequisites should consider
auditing the prerequisite courses if no work has been attempted in the field within the past
five years

Regularly enrolled students who desire to take any course at another institution and transfer
it must secure the appropriate department head's and dean's approval before enrollment at the
other institution Forms are available in the Admissions Office and the departments

Grades made in transferred courses are not considered in computing the GPA at Western
Carolina University, but transferred hours are added to earned hours and will affect the
student's overall academic standing A student may not expect to have the repeat course
policy applied on the basis of courses completed at other institutions Graded work and
former students (those not enrolled for one or more of the immediately preceding semesters,
excluding summer terms) who attempt courses at other institutions must earn a cumulative
2.00 GPA and submit official transcripts of all work attempted to the Office of Admissions
in order to be eligible to return to WCU

Transfer Credit from Unaccredited Institutions Credit for courses taken at unaccredited
institutions, if accepted, may be subject to validation by successful completion of more
advanced courses and through the university's credit by examination and CLEP policies The
conditions will be indicated at the time of admission

Transfer of Credit from Technical Programs Credit may be transferred from a technical
program of a two-year institution and applied toward an appropriate bachelor's degree if the
institution is fully accredited or is a candidate for regional accreditation Students who have
not earned an associate degree in a technical program, or who hold a degree in a program not
covered by a cooperative agreement, will have their credits evaluated by the Admissions
Office and the department head of the student’s major Information about course transferabil-
ity may be obtained in the Admissions Office

Cooperative Transfer Agreements For students who have earned an associate degree from
a two-year institution in a program covered by a cooperative transfer agreement with that
institution, the requirements for a degree in that program are as stipulated in the agreement

Transfer of Credit in Military Science Courses Military science courses taken at another
accredited college or university for which there are equivalent courses at Western Carolina
University may be transferred for credit not to exceed 16 hours This transfer of credit does
not guarantee the admission of the student into the ROTC program Admission will be
determined by the head of the Department of Military Science, acting upon university and
army regulations
English Proficiency Policy

Students are certified proficient in English as a corollary of the satisfactory completion of the freshman composition courses (ENGL 101 and 102). Students who receive transfer credit for ENGL 102 must take the English Proficiency Examination during transfer orientation session or in their first subsequent semester at the university.

Students may not repeat the examination, and examinations taken at other institutions are not accepted in lieu of the requirement. Students who fail the examination, and any other undergraduates who receive two composition-condition marks, are required to enroll in ENGL 300 in the semester immediately following. A student may choose to enroll in ENGL 300 instead of taking the examination and meet the proficiency requirement by passing the course. The credit earned in ENGL 300 may be applied as general elective credit.

Composition-Condition Marks A student whose written work in any course fails to meet acceptable standards will be assigned a composition-condition (CC) mark by the instructor. All undergraduates who receive two CC grades prior to the semester in which they complete 110 hours at Western Carolina University are required to pass English 300 before they will be eligible for graduation. This course must be taken within two semesters of receiving the second CC and must be passed with a grade of C or better.

Placement in Freshman English

Based on the scores achieved on writing samples taken during summer orientation sessions, students will be placed in the appropriate composition section ENGL 100, 101, or 102. Honors Students with exceptionally high scores on the writing sample may place out of Freshman English altogether, receiving six hours of credit toward graduation. Students placed in ENGL 102 Honors who achieve a grade of C or better will receive an additional three hours of credit for ENGL 101. Students placing into ENGL 101 must complete the six-hour Freshman English sequence of ENGL 101, followed by ENGL 102.

Although students placing into ENGL 100 may not apply its three hours of credit toward graduation, they must complete that course to become eligible for entry into the ENGL 101-102 sequence.

Placement in Mathematics

A mathematics placement exam is administered to all entering students during the summer orientation sessions and at the beginning of each semester. Based on the results of this exam, students may place into MATH 130, 170, 145, 146, or 153. Students who do not pass the exam will be required to pass MATH 100 before enrolling in any course for which MATH 100 is a prerequisite.

Advanced Placement

Students may become eligible to enter intermediate or advanced courses in a field, bypassing one or more lower-level courses, if they qualify on the basis of their performance on advanced placement tests.

Placement in Modern Foreign Languages

Students will be placed at the appropriate level in a language based on the number of years of high school and/or college-level language study. Any student placed in the second or higher course in French, German, or Spanish who passes that course with a grade of C or better will receive three or six hours of credit for the courses bypassed. This may include the general education course 101. Additional information can be obtained from the department or from a CAP Center adviser.

Chemistry Freshmen with above-average ability in chemistry are encouraged to take the American Chemical Society’s standardized examination. Satisfactory performance allows
a student credit in either CHEM 132 or 135. Additional tests may be taken for a maximum of 10 hours of credit.

**Mathematics**  
A placement test is given to all entering students each semester. Based on the results of this test, students are placed in appropriate courses.

**Advanced Placement Program**  
Students who earn a grade of 3 or above on the College Board advanced placement courses will be awarded credit based upon the evaluations of the appropriate department heads. Currently, credit may be earned in American and European history, art history, biology, chemistry, English, French language and literature, German literature, mathematics, physics, and Spanish language and literature.

**Assessment Program**  
Western Carolina University has programs designed to assess student learning and to evaluate the overall college experience. Students are expected to participate in these assessments throughout their enrollment at the university.

**Non-Credit Courses**  
Credit earned in ENGL 100, MATH 100, and EDRD 150 will not count toward the 128 hours required for graduation. This policy became effective Fall term, 1987.

**Credit by Examination**

A student may apply to be examined in any general education course and any other course identified by a department head as available for credit by examination. The student must present an approved permission form after the examination has been completed. Students making an A or B will receive credit. Those making C do not receive credit, but are eligible for a waiver of a course requirement. With a D or F, credit may be earned only by regular enrollment during a subsequent semester. The GPA will not be affected by the grade made on the examination. All credit by examination attempts must be completed prior to the semester of graduation.

The examination procedure may be attempted only once for any one course. Students who have completed more than two collegiate courses in the field of study concerned may earn credit by examination only after securing written approval of the head of the department in which the course is offered. However, they may take the examination and secure a waiver of a curricular requirement by scoring a C or higher.

The fee for scheduling a course on a credit by examination basis is $15. No fee will be assessed if the examination is being used to validate transfer credits or when the student is enrolled full-time during a fall or spring semester.

**The College Level Examination Program**

The university cooperates with the College Board in this program, through which credit may be awarded for the CLEP subject examinations that have been approved by the academic departments as appropriate measures of academic achievement in their courses. Elective credit may be granted for examinations covering material which is not the substantial equivalent of any specific Western Carolina University course. These elective credits may be applied toward graduation requirements if the student fulfills certain general education requirements or complies with other conditions prescribed by the appropriate deans and department heads. The subject examinations also may be used to validate credits earned at unaccredited institutions or courses taken through military service and to earn credit for courses failed at the university or other institutions. A list of the approved examinations and the credit that may be awarded is available in the Office of Academic Services.

The minimum score required for credit is the 50th percentile on the national norms for the examination in question. Departments also may require demonstration of achievement by satisfactory completion of an essay or by provision of other evidence of the competencies to be mastered in a course or course sequence. The general examinations of CLEP are not accepted for credit. Subject examinations that are repeated within less than one year from the date of previous testing will not be considered for credit.
Credits earned through CLEP will be posted on the transcript, but no grades are recorded. The student’s GPA will not be affected. Duplicate credits are not awarded in any case. CLEP credits earned at other institutions will be evaluated in the same manner as the equivalent courses at those institutions. The same policies and procedures used in evaluating the applicability of other advanced-standing and transfer credits toward a degree will be applied.

Credit for Experiential Learning

Western Carolina University endorses the concept of undergraduate credit for experiential learning in recognition of valid learning experiences. Departments awarding credit for experiential learning do so on the basis of detailed departmental guidelines and procedures as approved by the Council on Instruction and Curriculum. However, credit is awarded by a department only for those competencies which are related to areas of instruction in that department and which are applicable to the degree program being completed. Credit is not extended automatically or in blanket fashion.

To receive credit for experiential learning, a student must submit a request to the appropriate department head. A faculty committee named by the department head will review the request. If the request seems appropriate, the student will be provided with guidelines for preparing a portfolio which the committee will review to determine the conditions and amount of credit to be awarded.

Credit for all or part of a course(s) may be awarded. If partial credit is awarded, the student will pay the full cost of the course, but will be required to attend only those classes and do additional work as designated. There is no charge for courses for which full credit is awarded. Committee actions, when endorsed by the department head and dean, must be reported to the registrar. The credit awarded is not applicable to the university’s residency requirement.

Credit for Veterans of Military Service

A veteran who has served 12 months or more in continuous active duty in a branch of military service and who presents the registrar a copy of the DD 214 will have entered on the transcript a statement that the number of hours of credit required for graduation has been reduced from 128 to 121. This reduction does not alter major, minor, concentration, or general education requirements for a degree.

Service school courses are evaluated by reference to the recommendations of the American Council of Education when credentials are presented. Such recommendation, however, is not binding on the university.

Class Attendance Policy

Western Carolina University expects students to recognize the positive effect on academic success of class attendance and participation. All undergraduates are expected to attend all meetings of the courses in which they are enrolled, any absence is incurred at the student’s own risk.

Each instructor will establish the attendance requirements, make-up procedures, and guidelines for excused absences in each course and the effect that irregular attendance, lack of participation, and inadequate preparation will have upon a student’s grade. The instructor will distribute written attendance policies to students at the beginning of each term. An instructor may establish special and more demanding attendance requirements for students who are performing less than satisfactorily. Each student is responsible for complying with the announced procedures for making up missed work.

A student with more unexcused absences in a 100- (freshman) or 200- (sophomore) level course than the semester hours given for the course can expect the instructor to lower the course grade. Class attendance may be required of undergraduate students as a condition of admission or readmission to the university or of eligibility to continue enrollment.
Group Absences and Field Trips  Field trips and scheduled absences should be planned to disrupt the school calendar as little as possible Only in rare instances should they be made during the last two weeks of the semester or when early registration is in progress Classes missed because of field trips or service to or for the university must be processed in advance by the instructor and each participating student The faculty member in charge must obtain permission for the trip from the dean at least 10 days in advance and give each student a copy of the approved request Each student must present the request, containing the name of the sponsor and the group, the purpose and dates of the trip, and the names of the participating students, to each instructor for signature prior to the trip The faculty member will notify the dean if any students fail to make the trip Questions of policy interpretation may be referred by the dean to the Office for Academic Affairs

A student who misses an examination or quiz because of an approved trip is responsible for contacting the instructor within a week after returning to make mutually satisfactory arrangements for a make-up The instructor is under no obligation to provide a make-up unless the student notifies the instructor of the absence prior to departure The student also is responsible for making up assignments and for knowing the material covered

Final Examinations  A final examination is required in every credit course and is scheduled on a designated day at the end of the course No student is exempted However, no student will be required to take more than two final examinations on any one day Any student who has three final examinations scheduled on one day has the option of taking all three or requesting that one be rescheduled A request to have an examination rescheduled must be made no later than five Monday-Friday class days before the last day of classes In case of conflict in rescheduling, consult procedures outlined in the “Schedule of Classes”

Graduation and Certification

Application for Graduation  To be certified as a candidate for graduation the student obtains an application form from the dean and returns it to the dean The dean sends it and an official transcript to the student’s department head In consultation with the student’s adviser, the department head determines all requirements remaining to be completed At the appropriate time, the application is brought up to date, signed by the department head, and returned to the dean who certifies it and forwards it to the registrar

Undergraduate students should begin the procedure immediately after 90 hours have been earned Specific deadlines for filing degree application are given in the Academic Calendar
Certification and Licensure  Completion of a bachelor's degree in teacher education, nursing, or health sciences qualifies a student to seek the appropriate certification or licensure. Information about the policies and procedures is available from the dean of the appropriate school. Procedures for teacher certification are found on page 112.

Graduation Attendance. Attendance at graduation is required of candidates for graduation. A diploma may be granted in absentia only with approval of the vice-chancellor for academic affairs or his designee.

Military Commissioning. Successful completion of the ROTC curriculum and recommendation for commissioning from the professor of Military Science qualifies students upon graduation to be offered commissions as second lieutenants in the United States Army, Army Reserve, or Army National Guard. Information about policies and procedures for obtaining commissions is available in the Department of Military Science.
DEGREE PROGRAMS AND REQUIREMENTS

Every bachelor's degree program requires the completion of a minimum of 120 semester hours to a maximum of 128 semester hours, including (1) a general education component, (2) a major as prescribed by one of the departments, (3) elective courses, and, (4) in cases where majors are less than 46 hours, a minor, second major, concentration, or other approved program as specified by the appropriate school and department. Unless specifically provided for in the catalog description, credit for any course may be applied only once toward the required hours for graduation.

**Majors** A major (track) consists of a group of prescribed and elective courses (30-64 hours) providing breadth and depth in an academic discipline, in two or more closely related disciplines, or in an interdisciplinary field of study. The requirements for a major in one discipline may include supporting courses selected from other disciplines.

In degree programs that include a major of 30 to 40 hours, a minor, second major, or other approved program also is required.

In degree programs that do not require a minor or second major, 46-64 hours are required in a major, including any concentrations, emphases, or specialization options that may be a part of the major.

**Concentrations** A concentration is a student option within a major that consists of a group of prescribed courses designed to provide preparation in a specific professional specialty within the major discipline. Ordinarily, degree programs in which the major includes a concentration do not require a minor or second major. Concentrations are required in some majors.

**Minors** A minor consists of a group of prescribed and elective courses in an academic discipline, two or more closely related disciplines, an interdisciplinary field of study, or a specially designed individual program. It differs from a major principally in requiring fewer courses (16-24 semester hours) and providing less depth.

A student may not major and minor in the same field.

**Disciplinary Focus Area** A disciplinary focus area is a 24-hour course of study in an academic discipline required of education students enrolled in a B.S.Ed. program in communication disorders, business, elementary, middle grades, industrial arts, physical education, or special education (general, mental retardation, or learning disabilities). The focus areas available are the following: Anthropology, Art, Economics, English, French, Geography, Geology, German, History, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Spanish.

**Second Majors** A second major, often called a double major, is completed at the student’s option by taking the course requirements specified in the major component of the applicable degree program. The hours earned in completing a second major apply to the minimum 128 hours required for any bachelor’s degree and do not lead to the award of a second degree. A student may not declare a second major unless a bachelor’s degree was obtained at Western Carolina University. Students interested in earning a second bachelor’s degree must meet the additional requirements stated below for second degrees.

**Program Requirements** The program requirement component of a degree program consists of courses which are outside the major discipline but which support the major by providing skills and knowledge directly related to the major. There are no minimum or maximum limits on the program requirements component of a degree program except that, without a specific exemption, 75 hours are the maximum that may be required in aggregate in all components of a degree program exclusive of general education and general or free electives.

**General Electives** Unless a program has been specifically exempted, each degree plan includes a minimum of 12 hours of general (free) electives. These electives are exclusive of...
(1) hours earned in meeting the requirements of the other components of a degree program, 
(2) any remedial or developmental work a student may take, and (3) elective hours that may 
become available to a student through application of the general education waiver policy.

**Waivers and Substitutions**  Waivers and substitutions of courses, other degree require-
ments, and academic regulations may be made only with adequate cause. Exemption from, 
or substitutions in, requirements established by an academic department must be approved 
by the department head. Schoolwide requirements may be waived or altered only with the 
approval of the dean of the school. Waivers of, and substitutions in, university-wide 
regulations and requirements must be approved by the Office for Academic Affairs. All 
requests must be submitted to the registrar on the waiver and substitutions form.

**Academic Advisers** The major selected by each student will determine the assignment of 
a faculty member for academic advising. Students who do not know the names of their 
advisers should contact the head of the major department or the CAP Center. To be assigned 
an adviser or arrange for a change of adviser, a declaration or change of major/adviser form 
must be completed. The major selected by the student also determines the major field-of-
study name to be entered on all appropriate forms. This name will appear on all grade reports 
received by the student and adviser.

**Students Undecided About a Major** Students are not required to declare a major at the time 
they enter the university. By exercising some care it is possible, without encountering any 
difficulty, to earn credit toward a degree for several semesters before selecting a major. 
However, students are encouraged to select a specific major no later than the semester after 
they have achieved sophomore standing. Through the CAP Center, the university provides 
a specific program of academic advisement to assist the undecided student in course 
selections and career decisions. When an undeclared student does select a major, the 
declaration or change of major/adviser procedures should be observed.

**Declaration or Change of Major/Adviser Procedure** A student who decides to declare or 
change a major must complete the declaration process in order to be assigned a new adviser 
in the appropriate department and to change the official records of the university. The student 
secures the declaration form from the present adviser or department head and completes the 
procedure by following the instructions on the form. The new major field-of-study name 
should appear on the next grade report/transcript that is issued after the completed form has 
been submitted to the registrar.

**Curricular Checksheets** Departments maintain a supply of curricular checksheets on each 
of their degree programs. Students should secure copies of the sheets for their programs to 
use as a supplementary aid in complying with catalog requirements. However, in the event 
of a conflict between requirements as listed on a checksheet and as stated in the catalog, 
catalog requirements shall prevail.

**Second Bachelor's Degree** Students already graduated from accredited four-year institu-
tions who are admitted to work toward another bachelor's degree must meet the university's 
regular graduation requirements. A minimum of 30 additional semester hours with a 2.0 GPA 
must be earned by regular enrollment at the university. The student must meet the 
requirements in general education and in the major as specified by the department head and 
dean. A student may obtain from the university only one of each of the six bachelor's degrees 
offered by the university, i.e., only one Bachelor of Arts degree, one Bachelor of Fine Arts 
degree, one Bachelor of Science degree, one Bachelor of Science in Business Administration 
degree, one Bachelor of Science in Education degree, and one Bachelor of Science in Nursing 
degree.

Students enrolled at the university who wish to work toward two bachelor's degrees 
simultaneously may do so, provided they secure the prior approval of the departments and 
schools through which the degree programs are offered. Approval must be secured not later 
than the end of the junior year. Students must meet the university's regular graduation 
requirements and complete at least 158 semester hours with a 2.0 GPA, including a minimum 
of 128 hours as specified for one degree and a minimum of 30 additional hours for the other 
(or second) degree through regular enrollment at the university. The 30 additional hours must 
be selected so as to meet the requirements in general education, the program requirements 
component of the degree plan, and in the major as specified by the department head and dean 
for the second degree.
GENERAL UNIVERSITY DEGREE REQUIREMENTS*

To be awarded a bachelor's degree, the student must meet the following general requirements:

1. Completion of a minimum of 120 semester hours to a maximum of 128 semester hours under requirements outlined for one of the degree programs.
2. A minimum GPA of 2.00 on all work attempted at Western Carolina University and on all courses in the major.
3. A minimum of 30 semester hours earned through regular enrollment at Western Carolina University in junior-senior courses, including not less than 12 hours on the junior-senior level in the major.
4. Fifty percent or more of the credits in the major and 40 percent or more of the credits presented for graduation on the junior-senior level unless the degree program being completed by the student is specifically exempted from the requirement.
5. Compliance with the English Proficiency Policy.

General Education Requirements

Western Carolina University is devoted to the concepts of liberal education. All bachelor's degree programs include studies in general education designed to provide each student the opportunity to develop a high degree of skill in the arts and mechanics of reasoning, critical thinking, and effective oral and written expression, an appreciation and understanding of our rich cultural heritage and the complexities of human relationships, traits of mind and spirit which reflect sound insights into self and the physical and social world in which we live, reference and resource skills, and a system of values essential for intelligent and discerning judgments and decisions.

It is believed that general education not only contributes to these basic objectives, as well as serving to integrate the total undergraduate experience and to promote optimum student achievement in chosen areas of interest. The framework within which the requirements are applied provides for extensive individual differences among students and for diverse and distinctive programs of study.

Credit earned by examination and advanced placement in appropriate courses may be applied toward fulfillment of the requirements. Evaluation of the applicability of transferred courses toward general education requirements is the responsibility of Academic Services in consultation with the appropriate department heads based on university guidelines.

The student's choice of the courses that can be taken to meet the requirements in any category of general education is limited only by the courses approved for each category. Where a choice is possible, course selections may not be specified. If a general education course should be specified as a requirement for some other component of a degree program, that course must be taken in addition to the courses taken to meet general education requirements. It may not be taken in lieu of, or used to waive, a general education requirement.

In cases where there is a provision for the waiver of a general education requirement based upon placement or passing another course, the hours waived become free electives or, in the case of certain approved majors, program and/or major requirements.

The general education component required in all bachelor's degree programs includes a total of 41 semester hours. The distribution requirements and the courses that are approved for each category are listed below:

Foundations Areas, 16 hours

1. Written Communication, 6 hours
   ENGL 101, 102 Composition I, II, 3 hours per course
2. Mathematics, 3 hours
   MATH 101 Mathematical Concepts, 3 hours
   (This requirement is waived if a student passes a higher-level math course. Hours waived become free electives)

*See Graduate Catalog Issue for graduate degree requirements.
3 Oral Communication, 3 hours (formerly Thinking, Reasoning, and Expressing)
CMHC 201, Introduction to Speech Communication, 3 hours

Until the end of the academic year 1996-97, the following courses will be accepted as fulfilling the requirement in this area:
- AST 201 (302) Cosmos, 3 hours
- BIOL 107 (307) Classical Experiments in Biology, 3 hours
- CMHC 110 Persuasive Thinking, Reasoning, and Expression, 3 hours
- ECON 108 (313) The Perfect Society, 3 hours
- LAW 101 (321) Legal Thought, Reasoning, and Implications, 3 hours
- PHIL 201 (300) Logic and Its Uses, 3 hours
- PHYS 110 (310) Physical Science, 3 hours
- PSY 105 (305) Thinking, Reasoning, and Expression, 3 hours
- PSOC 105 (308) Current Political and Social Issues, 3 hours
- Computer Literacy, 1 hour
- CS 101 Computer Concepts and Issues, 1 hour

(This requirement must be met by the end of the sophomore year unless the student transferred to the university as a junior or senior. The requirement is waived if the student passes CHEM 135H, CS 150, CIS 251, CIS 256, or MET 160 by the end of the sophomore year. The requirement may be waived for a junior or senior transfer student who passes BIOL 232, BIOL 333, CHEM 454, CJ 352, ENGL 401, GEG 326, JOUR 301, JOUR 303, PSC 348, PSC 349, SOC 385, SOC 386, or OA 340. Hours waived become free electives. No credit for CS 101 is awarded to students who enroll in the course after the computer literacy requirement has been met.)

5 Leisure and Fitness, 3 hours
The courses taken must include two hours selected from health or physical education and one hour of electives:
- ART 120 Beginning Drawing and Sketching, 1 hour
- ART 121 Beginning Painting, 1 hour
- ART 123 Off-Loom Fiber Works, 1 hour
- ART 124 Beginning Ceramics, 1 hour
- ART 125 Introduction to Calligraphy, 1 hour
- BIOL 108 Recreational Botany, 1 hour
- HEAL 120 Personal and Community Health, 2 hours
- MUS 110 Introduction to Instrumental Ensembles, 1 hour
- MUS 111 Introduction to Vocal Ensemble, 1 hour
- MUS 112 Introduction to Piano, 1 hour
- MUS 113 Introduction to Singing, 1 hour
- MUS 114 Introduction to Recorder, 1 hour
- MUS 116 Introduction to Dulcimer, 1 hour
- MUS 117 Introduction to Guitar, 1 hour
- PE 102 Beginning and Advanced Beginning Swimming, 1 hour*
- PE 103 Intermediate and Advanced Swimming and Aquatic Sports, 1 hour*
- PE 104 Lifesaving, 1 hour*
- PE 105 WST Training Course, 1 hour*
- PE 106 Scuba Diving, 1 hour*
- PE 107 Synchronized Swimming, 1 hour*
- PE 108 Canoeing, 1 hour*
- PE 113 Hiking, 1 hour
- PE 114 Jogging, 1 hour
- PE 115 Weight Training, 1 hour
- PE 116 Slumstastics, 1 hour
- PE 117 Wrestling, 1 hour
- PE 118 Aerobic Dance, 1 hour
- PE 122 Beginning Tennis, 1 hour*
- PE 123 Beginning Golf, 1 hour*
- PE 124 Handball, 1 hour
- PE 125 Racquetball, 1 hour
- PE 126 Bowling, 1 hour
- PE 127 Badminton, 1 hour
- PE 129 Archery, 1 hour
62 Casting, 1 hour
PE 203 Gun Handling, 1 hour
PE 204 Snow Skung, 1 hour
PE 205 Modern Dance and Choreography, 1 hour
PE 206 Social, Line, and Folk Dance, 1 hour
PE 207 Fencing, 1 hour
PE 209 Advanced Tennis, 1 hour*
PE 210 Advanced Golf, 1 hour*
PE 214 Tumbling and Rebound Tumbling, 1 hour
PE 215 Gymnastic Apparatus, 1 hour
PE 223 Soccer and Basketball, 1 hour
PE 224 Field Hockey, 1 hour
PE 225 Volleyball and Softball, 1 hour
PE 226 Tag Football, 1 hour
PE 227 Track and Field, 1 hour
PE 228 Adaptive Physical Education, 1 hour
PE 230 Ice Skating, 1 hour
CMTA 102 Theatre Production Stagecraft, 1 hour
CMTA 103 Theatre Production Costume, 1 hour

*Placement in water sports and in beginning and advanced golf and tennis is determined by prerequisites, if any and by the skills demonstrated at the first class meeting. A student whose skills are inappropriate is advised into a course at the appropriate level.

Perspectives Areas, 25 hours

The courses selected must include one course in literature selected from any literature course offered in any of the Perspectives categories (ENGL 201, 203, 204, GER 204, ASI 108). ENGL 102 is prerequisite to all courses in English above the freshman level.

1 Social Sciences and Contemporary Institutions, 6 hours
   a Human Behavior, 3 hours
      GEOG 102 (301) World Regional Geography, 3 hours
      PSY 101 (301) Perspectives on Human Behavior, 3 hours
      SOC 103 (300) Human Society, 3 hours
   b Contemporary Institutions, 3 hours
      ECON 104 (312) Contemporary Economic Institutions, 3 hours
      HIST 106 (306) Modern American Institutions, 3 hours
      LAW 205 (325) Legal Issues and Institutions, 3 hours
      PSC 106 (300) American Politics and Issues, 3 hours

2 Physical and Biological Sciences, 7 hours
   AST 101 Descriptive Astronomy, 3-4 hours
   BIOL 101 Biology in the Contemporary World, 3-4 hours
   CHEM 101 Chemistry in Society, 3-4 hours
   GEOL 103 Earth and Man, 3-4 hours
   PHYS 105 Contemporary Physics, 4 hours

   Courses in two different sciences are required. The courses selected must include one course with a lab. PHYS 105 may be taken only as a four-hour course including both lecture and lab. All of the other courses may be taken with the lab for four hours credit or without the lab for three hours credit. However, a student must be enrolled in the lecture to take the lab for the course.

   (Part or all of the science requirement is waived if a student enrolls in and passes one or more higher level science courses. Courses in two different sciences are required to waive all of the requirement. Hours waived become free electives.)

3 The Humanistic Experience, 6 hours
   a Humanities, 3 hours
      ASI 108 (308) The Ancient and Medieval Experience, 3 hours
      ENGL 203 Major American Writers, 3 hours
      FREN 101 French Language and Culture or FREN 110*, 3 hours
      GER 101 German Language and Culture or GER 110*, 3 hours
      SPAN 101 Spanish Language and Culture or SPAN 110*, 3 hours
      PHIL 101 Man and Value, 3 hours
   b Fine or Performing Arts, 3 hours
      ART 104 (308) Introduction to Visual Arts, 3 hours
MUS 101 (300) Music Appreciation, 3 hours
CMTA 104 (304) The Theatre Experience, 3 hours

**4 Comparative Cultures, 3 hours**
- ANTH 120 (320) Comparative Cultural Systems, 3 hours
- ART 102 (302) Non-Western Art, 3 hours
- ECON 103 (311) Economics of Comparative Cultures, 3 hours
- ENGL 204 Cultures in Contact and Collision, 3 hours
- FREN 105 The French-Speaking World, 3 hours
- GEOG 103 (303) Cultural Geography, 3 hours
- HIST 107 (307) World Cultures in Historical Perspective, 3 hours
- PSC 107 (301) Comparative Political Cultures, 3 hours
- REL 103 (300) Man and the Sacred, 3 hours
- SPAN 105 The Spanish-Speaking World, 3 hours

**5 The Human Past, 3 hours**
- ANTH 110 Origins of Civilization, 3 hours
- ART 103 Social History of Art, 3 hours
- ENGL 201 Literary Landmarks in Western Culture, 3 hours
- GER 204 A Literary Perspective on German Civilization, 3 hours
- HIST 105 (305) History of Modern Western Civilization, 3 hours
- MUS 102 Music in American Culture, 3 hours
- PSC 108 Global Issues in Politics, 3 hours
- REL 104 The Biblical World, 3 hours

Only three of the six credit hours earned in FREN, GER, SPAN 110 apply to general education. The remainder apply to program, major or elective hours outside of general education.

**Programs of Study**

The university offers programs leading to bachelor's, master's, and education-specialist degrees as well as preprofessional, interinstitutional, and certification curricula. All of the bachelor's-level programs, including the course requirements for the various majors, minors, and concentrations offered by the schools and departments, are described in the sections that follow. Programs of interest to graduate students are presented in the Graduate Catalog Issue of The Record.

**Degree Programs**

The following table lists alphabetically the university's principal academic programs and indicates the school offering the programs. The schools are Applied Sciences (AS), Arts and Sciences (A&S), Business (BUS), and Education and Psychology (E&P).

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<tr>
<th>Undergraduate Major</th>
<th>School</th>
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<tr>
<td>Accounting</td>
<td>BUS</td>
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<td>Anthropology</td>
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<td>Child Development and Family Relations</td>
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<td>Clinical Laboratory Sciences</td>
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<td>Clothing, Textiles, and Merchandising</td>
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<td>Computer Information Systems</td>
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E&P  
Special Studies  
E&P  
Speech and Theatre Arts  
A&S  
Theatre  
A&S  
Sport Management  
E&P  
Therapeutic Recreation  
E&P

In addition to the curricula offered by a department or jointly by two departments, the university provides a number of special-purpose programs in which students may participate either as a part of the regular degree programs of their choice or as alternatives to them. These opportunities include the following programs:

**University Honors Program**

Students with a 3.5 or higher GPA are invited to participate in the University Honors Program. Freshmen are considered on the basis of SAT scores and high school records. The program consists of honors courses each semester during the freshman and sophomore years which apply toward completion of general education requirements and, during the junior and senior years, general seminars and honors courses, as well as independent study or research in the major. All honors courses are taught by members of the honors faculty. Students who complete at least 30 hours of honors instruction at WCU, or through participation in a National Collegiate Honors semester, will receive the statement “Graduate of the University Honors Program” on the permanent transcript. Those with at least 12 hours but less than 30 hours of honors instruction receive the designation “Honors Associate” on the permanent transcript.

**Special Studies Programs**

The Bachelor of Arts and Bachelor of Science degrees in Special Studies are university-wide degrees awarded by Western Carolina University. Programs leading to these degrees are designed by students and faculty members following general university guidelines for program development. Each program includes a general education component consistent with university guidelines and a unified program of study in a special area that has been appropriately reviewed and approved at the departmental, school, and university levels. Responsibility for the administration of, and academic advisement in, the program is assigned to the several departments and schools, depending upon the nature of each program.

**Study Abroad**

As a part of its commitment to international education, the university offers a wide range of Study Abroad programs. Some programs are WCU-based while others are offered through other universities and agencies. Travel and study programs are available at any time during the year and range from a few weeks to a year in duration. Study Abroad programs are open around the world and available in English or the language of the country. For more information, contact the Student Development Office.

**Preprofessional Programs**

Students who attend the university to prepare for admission into a professional school are provided with a variety of options about the programs they may pursue. If the professional school of the student's choice is one that does not require a bachelor's degree for admission and the student plans to transfer before earning a degree, academic advisers in the CAP Center and in the appropriate department will assist the student to develop a program plan suited to the field and to the admission requirements of the professional school.

Many professional schools require a bachelor's degree for admission, and the student who plans to earn a degree before entering a professional school will choose to complete one of the regular degree programs offered by the university. Electives in the chosen curriculum should be selected after consulting the catalog of the professional school to be attended later.
Each student is assigned an academic adviser in the major field and also may secure the assignment of a preprofessional adviser.

The general preprofessional preparation needed for some of the programs about which students inquire most often is described below. Students who are interested in programs in professional fields other than those described should direct their inquiries to the advisement coordinator in the CAP Center or to the head of the appropriate department.

**Pre-Engineering** A two-year pre-engineering program is offered in the Department of Chemistry and Physics. It emphasizes basic courses in chemistry, mathematics, physics, and the humanities that are common to all engineering curricula. The program may be modified depending upon the field of engineering chosen and the school to which the student plans to transfer. It is not designed to prepare students in architecture, since such programs are typically offered through schools of design rather than engineering schools.

Close contacts are maintained with engineering schools in North Carolina and neighboring states, and the program is planned to provide the maximum transfer of credit. Through cooperative transfer agreements with Clemson University and North Carolina State University, students may transfer two years of appropriate credits toward an engineering degree at either institution. WCU's pre-engineering courses also are approved for transfer to the engineering schools at UNC-Charlotte and NCA&T. Students are advised by the Coordinator of pre-engineering advisement, Professor Ted Moody.

**Pre-Law** Law schools typically require a bachelor's degree for admission, but no one curriculum or major is recommended or prescribed for admission. Pre-law students are urged to obtain from the Department of Political Science and Public Affairs a copy of the Association of American Law Schools' Statement on Prelegal Education and study its recommendations. The catalog of the law school the student plans to attend should be consulted for any specific requirements.

Freshmen, transfer students, and students who have not declared a major will be assigned a pre-law adviser by the CAP Center. After selecting a major, students will be assigned to an appropriate departmental and pre-law adviser. The Law School Admission Test is administered twice each year by the Testing Center and students should take the test late in the junior year or early in the senior year.

**Pre-Medical, Pre-Dental, Pre-Optometry, and Pre-Veterinary Programs.** Although the professional schools of medicine, dentistry, optometry, and veterinary medicine have traditionally admitted more students who have majored in chemistry or biology, they will accept students who have majored in any academic discipline provided that basic requirements in English, mathematics, physics, chemistry, biology, and specified electives are met. Students who have earned a bachelor's degree normally are given preference in admission although some students may be allowed to enter prior to their senior year.

By agreement between Western Carolina University and Bowman Gray School of Medicine, students may earn a Master of Science degree in biology or chemistry and receive credit for selected courses toward a doctorate in biochemistry at Bowman Gray.

**Pre-Pharmacy** Two years (64 semester hours) of preparatory work are normally required for admission to a three-year pharmacy program.

Advisers are available in the CAP Center and the departments of Biology, and Chemistry and Physics. Pre-pharmacy students should plan to enroll in English, chemistry, biology, physics, mathematics, and the appropriate elective courses required for admission to the chosen professional school. Most schools require the Pharmacy College Admissions Test (PCAT) to be taken during the second year of preprofessional study.

**Cooperative Transfer Agreements with Community Colleges** Western Carolina University continuously develops cooperative transfer agreements with the state's two-year colleges and technical institutes. More than 90 agreements are currently in force. An associate degree graduate of a program covered by an agreement may complete a bachelor's degree in the designated program under the terms specified. The agreements...
allow students, at the time they enter a two-year institution, to know the requirements for the associate degree and for completing a bachelor's degree at the university in two additional years. Complete information is available from the Coordinator for Transfer Programs.

Cooperative Program in Agriculture and Life Sciences

Students who complete a two-year prescribed course of study at Western Carolina University have the opportunity to transfer to North Carolina State University in one of the following bachelor's degree programs in the School of Agriculture and Life Sciences:

- Agricultural economics
- Agricultural business management
- Agronomy
- Animal science
- Biological and agricultural engineering
- Biochemistry
- Biological sciences
- Botany
- Conservation
- Fisheries and wildlife sciences
- Food science
- Horticultural science
- Medical technology
- Pest management
- Poultry science
- Applied sociology
- Zoology
- Selected pre-professional programs

For further information, contact the program coordinator in the Natural Resources Management Program.

Cooperative Program in Forestry

By agreement between Western Carolina University and the School of Forest Resources at North Carolina State University, a student interested in the field of forest resources may take the first two years of the program at Western Carolina University and the remainder at North Carolina State University.

During the freshman year students should select one of four specialty areas of the program:

1. Forestry
2. Wood Science and Technology
3. Pulp and Paper Science and Technology
4. Recreation Resources Administration

The courses to be pursued for each area are available from the program coordinator in the Natural Resources Management Program.

During the first two years of the program, students with acceptable scholastic records may earn the professional degree in two additional years. Before transferring, students should check their credits with the requirements of North Carolina State University to determine the advisability of completing additional courses in summer school at one of the two institutions. A GPA of 2.5 is required for transfer.

Experiential Programs

Western Carolina University endorses the concept of education as a multidimensional process of learning that incorporates study and practice. To that end, its curricula are designed to provide for acquisition of knowledge and understanding of theory combined with opportunities for experience in practical applications in real settings. Many of the degree programs include required work in professional situations specific to the positions and career areas for which the students are preparing. At the student's option, a variety of other work opportunities deriving from and related to academic study are available through which job experience may be gained. To further its commitment to the preparation of well-qualified graduates, the university provides various types of support to departmentally developed experiential activities. It also operates university-wide programs that make work opportunities directly related to their fields of study available to all students.

Cooperative Education Program

Cooperative Education is a program in which students combine academic study with career-related work experience while pursuing a degree. Designed to be an integral part of the educational experience, the program offers experiential learning in both full-time and part-time positions in virtually all majors. Information about eligibility for the program, work opportunities, and requirements for credit is available from the Cooperative Education Office in the Career and Academic Planning (CAP) Center.

Internships and Practica

A broad range of full-time and part-time learning opportunities are provided through internships, practica, field courses, and clinical affiliations for periods of one or more terms. The courses allow students to gain experience in the actual practice...
of a profession and to develop mastery of the tasks, skills, and theory applications in career fields pertinent to their majors. The experiences gained are well-integrated into the curricula and are frequently included in the requirements for a degree.

**Applied Field Projects** Assignments of one term in duration provide opportunities for students to earn academic credit for approved applied field projects or research programs under faculty supervision in cooperating business, governmental, or educational organizations in which there is a need for a special project, as opposed to an ongoing work assignment, to be carried out. The assignments involve such activities as research, theory application, and the design and completion of a project pertinent to the operations of the cooperating agency. Such courses are offered only on an elective basis and student selection is competitive.

**Vocational-Technical Programs**

Interdepartmental courses and programs are offered cooperatively by the schools of Business, Education and Psychology, and Applied Sciences for students interested in the field of vocational-technical education. Multiple certification options are available as a part of, or supplementary to, the bachelor's curricula in business education and home economics education. Graduate courses in vocational-technical education also are offered to supplement master's-level curricula.

**Community-Oriented Regional Education Program**

Western Carolina University, working cooperatively with community colleges, provides selected bachelor's-level academic programs specifically designed to meet the needs of associate degree graduates in community settings. Developed within the general university guidelines for bachelor's programs for two-year college graduates, each program is offered in a location convenient to persons employed in business and industry. Further information is available from the Division of Continuing Education and Summer School.

**In-Service Programs**

Western Carolina University offers a variety of courses and programs on an in-service basis for persons who need to pursue degrees while fully employed. The courses and programs, scheduled in Asheville, Cherokee, Cullowhee, and other locations, are primarily designed to meet the needs of in-service students. Programs are available in such major areas as business, education, industrial technology, nursing, and health sciences. Contact the dean of the appropriate school.

**Army Reserve Officers’ Training Corps**

The Army ROTC unit at Western Carolina University is open to qualified men and women. Upon graduation in one of the university's regular degree programs, students successfully completing the program will be commissioned second lieutenants in the United States Army, Army Reserve, or National Guard. Students receive financial compensation while enrolled in the advanced course. Competitive scholarships are available. Further information may be obtained from the Department of Military Science, Western Carolina University.
The mission of the College of Applied Sciences is to offer quality education for a variety of professional careers. In fulfilling this role, the college provides undergraduate and graduate educational programs in Cullowhee and Asheville.

The faculty of the college engage in instruction, research, and service. The primary activity of the faculty of the college is teaching. Quality undergraduate and graduate education is provided for a diverse student population through student-faculty involvement which promotes creativity and critical thinking. Complementary faculty activities include providing individualized student advisement, service, containing education opportunities, maintaining currency in areas of expertise, active involvement in professional organizations, and scholarly activities including research, creative activities, presentations, and publications.

The college is responsible to the Office of Academic Affairs and is organized into six academic departments (Criminal Justice, Health Sciences, Human Environmental Sciences, Industrial and Engineering Technology, Military Science, and Nursing) and an Office of Continuing Education for Nursing and Health Sciences.

Special Expenses. Due to the nature of the clinical and laboratory experiences required in some of the school's programs, students will encounter special expenses beyond those listed in the fees section of this catalog. Liability insurance, uniforms, transportation to clinical sites, and special texts and class materials are examples of what might be expected. Each program has different requirements and students should discuss costs with the program coordinator.

Admission to Health Sciences and Nursing Programs. Declaration of a major in the Health Sciences or Nursing departments does not guarantee admission to the junior-senior sequence in the major. Students are not officially in the professional segment of a program until they have received written notification of their program admission. Applications for program admission are normally available from November 1 through February 15 of each year for potential admission in the fall of the next year.

Clinical Laboratory Sciences. Students may apply for admission to the program when they have completed, or are concurrently completing, all general-education and program requirements. A minimum GPA of 2.0 is required. Applications must be received in the program office by February 15. Interviews are required. Admissions decisions are announced in writing to applicants by March 15. An accelerated curriculum is available for associate degree medical laboratory technicians which normally allows completion of degree requirements in two years.

Emergency Medical Care. Admission to the professional sequence requires the completion of a minimum of 60 semester hours including all general education and preprofessional courses. Applicants must hold or be eligible for North Carolina EMT certification and forward an application to the program office by February 15 of each year for entry the following August. Application to the program does not assure acceptance.Articulating and other transfer students holding current paramedic certification should contact the program coordinator about degree requirements and program admission. Students admitted to the professional sequence must earn a grade of C or better in each EMC course in the major and an overall 2.0 GPA to remain in the program.

Environmental Health. Students may apply for admission to the professional sequence upon completion of all general-education, program, and preprofessional course requirements with a minimum cumulative GPA of 2.0. Applicants are evaluated on their overall educational records, including achievement in science and non-science courses as well as communication skills. Transfer students will be admitted with provisional status for one semester. Students admitted to the professional sequence will be required to maintain a C in each course in the major and in the emphasis area.
Health Information Management. Students must have completed 59-60 semester hours of college work before admission, including all general education course requirements as well as BIOL 291/292. To be eligible to apply, a GPA of 2.0 is required. However, application does not assure acceptance. Students must earn a grade of C or above in each professional course in the major to remain in the program.

Health Services Management and Supervision. Application is limited to transfer students who hold an allied health credential and an associate degree. Students in clinical laboratory sciences and health information management are not eligible for admission except as candidates for a second bachelor's degree. A grade of C or better in each course in the major and in the discipline area is required of admitted students to remain in the major.

Nursing. Admission to the upper-division nursing major is competitive and priority is given to the best qualified students. To be considered for admission, all students must have completed or be in the process of completing 60 semester hours of college work, including all program requirements. Admission is based on cumulative GPA on all previous college work and test scores. Applications from non-RNs should be received with all supporting materials by March 1. Notification of the admissions decision will be made by mid-April. Registered nurses are invited to apply at any time of the year.

DEPARTMENT OF CRIMINAL JUSTICE

F. Frederick Hawley, Head

E. Davis, B. Gay, T. Ho, W. Hyatt

Major in Criminal Justice, B.S. Degree

General education, 41 hours

Program requirements, 3 hours PSY 250

The major requires 54 hours as follows:
CJ 250 The Criminal Justice System, 3 hours
CJ 252 The Communication Process in Criminal Justice, 3 hours
CJ 311 The Juvenile Justice Process, 3 hours
CJ 320 The Law Enforcement Process, 3 hours
CJ 330 The Judicial Process, 3 hours
CJ 340 The Corrections Process, 3 hours
CJ 350 Criminal Justice Theory, 3 hours
CJ 352 Criminal Justice Planning, 3 hours
CJ 404 Substantive Criminal Law 3 hours
CJ 410 Victimology, 3 hours
CJ 482 Senior Directed Research, 3 hours
PSC 302 or 303 or 304 or 411 Problems and Policies of American Government or State and Local Government or Public Administration or Civil Rights and Liberties, 3 hours
PSY 310 or PSY 470 Social Psychology or Abnormal Psychology, 3 hours
SOC 350 or 354 Deviant Social Behavior or Social Problems, 3 hours
Criminal Justice upper division electives, 12 hours, with no more than 3 hours from CJ 389/483 and no more than 3 hours from CJ 480

General electives (30 hours), including at least three hours at the junior-senior level, are required to complete the program. Students are urged to plan, in consultation with their faculty adviser, an elective program that will lead to competency in a secondary area.

Minor in Criminal Justice

The minor requires 18 hours, including CJ 250 and 15 hours of electives approved by the department head.
DEPARTMENT OF HEALTH SCIENCES
Barbara Lovin, Head

T Connelly, N Cook, B Cosper, W Foegelle, S Higgins, M Hubble, N Kehrberg, P Kneller, J Palmer, G Smith, D Southern, C Stevens, E Story, D Trigg

Major in Clinical Laboratory Sciences, B.S Degree
General education, 41 hours
Program requirements, 31 hours

The major requires 55 hours as follows
CLS 300 Instrumentation and Blood Collection, 1 hour
CLS 301 Analysis of Body Fluids, 2 hours
CLS 302 Clinical Microbiology, 4 hours
CLS 303 Hematology, 3 hours
CLS 304 Immunology, 3 hours
CLS 305 Clinical Parasitology, 2 hours
CLS 306 Immunohematology, 4 hours
CLS 307 Medical Mycology, 2 hours
CLS 308 Advanced Hematology, 3 hours
CLS 309 Clinical Biochemistry, 3 hours
CLS 310 Principles of Clinical Precepting, 1 hour
CLS 406 Laboratory Management, 2 hours
CLS 485, 486, 487, 488, 489 Clinical Practicums Analysis, 3-5 hours, Hematology, 3-5 hours, Blood Banking and Serology, 3-5 hours, Microbiology, 3-5 hours, Clinical Chemistry, 3-5 hours (Articulating students will take these courses for 3 hours each)
CHEM 361 Principles of Biochemistry, 3 hours
General electives, 1 hour

Major in Emergency Medical Care, B.S Degree
General Education, 41 hours
Program requirements, 21 hours
CHEM 132, 133, BIOL 291, 292, HSCC 240, 241

The major requires 59 hours as follows
EMC 340 Fundamentals of Advanced Life Support, 3 hours
EMC 350 Cardiology, 3 hours
EMC 360 Acute Respiratory and Fluid Disorders, 3 hours
EMC 370 Medical Emergencies, 3 hours
EMC 382 Clinical Practicum I, 1 hour
EMC 410 Trauma Management, 3 hours
EMC 420 Maternal and Child Emergency Care, 3 hours
EMC 430 Special Needs Patients, 2 hours
EMC 483 Clinical Practicum II, 4 hours
EMC 484 Clinical Practicum III, 3 hours
EMC 485 MICU Practicum, 3 hours
HSMS 320 Human Resource Management in Health Care Agencies, 3 hours
HSMS 340 Perspectives in Health Care, 3 hours
HSMS 450 Financial Management in Health Care, 3 hours
HSMS 470 Special Problems in Health Care Management, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSCC 370 Introduction to Pharmacology, 3 hours
PSY 460 Crisis Intervention, 1 hour
ACCT 161 Accounting for the Non-Business Major, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 306 Behavioral Science in Organizations, 3 hours

General electives (7 hours) are required to complete the program

**Major in Environmental Health, B.S Degree**

General education, 41 hours

Program requirements, 16 hours  MATH 130, MATH 170 or PSY 251, and MATH 145, PHYS 105 (in addition to courses taken to meet general education requirements), and PSY 250 or approved substitute

The major requires 64 hours as follows
Preprofessional courses, 16 hours  CHEM 133, 135, 136, BIOL 413, 414
HSEH 230 Introduction to Environmental Health, 3 hours
HSEH 310 Water Supply and Waste Water Treatment, 4 hours
HSEH 320 Shelter Environment, 4 hours
HSEH 330 Food and Milk Control, 4 hours
HSEH 386 Field Practicum in Environmental Health, 3 hours
HSEH 440 Air Quality Control, 4 hours
HSEH 457 Industrial Hygiene, 3 hours
HSEH 460 Environmental Health Problems, 1 hour
HSEH 470 Epidemiology, 3 hours
HSEH 475 Environmental Program Administration, 3 hours
HSEH 483 Environmental Health Internship, 3 hours
GEOG(GEOL) 305 Hydrology and Soil Analysis, 4 hours

Designed emphasis area (9 hours) in environmental health, environmental science, industrial safety, or food science

General electives (7 hours) are required to complete the program. The courses selected in the designated emphasis area and in general electives must include in combination at least 11 hours at the junior-senior level

**Major in Health Information Management, B.S. Degree (formerly Medical Record Administration)**

General education, 41 hours

Program requirements, 18 hours  CHEM 132, MATH 170 or PSY 251, BIOL 291, 292, CIS 251

The major requires 56 hours as follows
HIM 301 Introduction to Health Information Management, 3 hours
HIM 303 Planning and Organizing in Health Information Management, 2 hours
HIM 310 Fundamentals of Clinical Medicine for Health Information Management, 3 hours
HIM 321 Health Information Management Practice Lab, 1 hour
HIM 401 Regulation of Health Care Facilities, 3 hours
HIM 402 Controlling Resources in Health Information Management, 3 hours
HIM 403 Health Data Collection, 2 hours
HIM 404 Health Information Classification Systems I, 4 hours
HIM 405 Health Information Classification Systems II, 3 hours
HIM 406 Topics In Health Information Management, 4 hours
HIM 483 Clinical Practicum I, 1 hour
HIM 484 Clinical Practicum II, 2 hours
HIM 485 Clinical Practicum III, 1 hour
HIM 486 Clinical Practicum IV, 3 hours
HIM 495 Seminar in Health Information Management, 3 hours
HSCC 220 Medical Terminology, 3 hours
HSCC 260 Etiology of Infectious Diseases, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
MGT 300 Introduction to Management, 3 hours
HSMS 320 Human Resource Management in Health Care Agencies, 3 hours
HSMS 330 Health Care Delivery Systems, 3 hours

Electives (13 hours), including at least 3 hours at the junior-senior level, are required to complete the program

Major in Health Services Management and Supervision, B.S Degree

General education, 41 hours

Program requirements, 9 hours ECON 231, ENGL 305, and PSY 251 or MATH 170

The major requires 63-64 hours as follows
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSMS 320 Human Resource Management in Health Care Agencies, 3 hours
HSMS 330 Health Care Delivery Systems, 3 hours
HSMS 340 Perspectives in Health Care, 3 hours
HSMS 450 Financial Management in Health Care, 3 hours
HSMS 460 Management of Health Resources, 3 hours
HSMS 493 Special Problems in Health Care Management, 3 hours

Discipline area, 30 hours Up to 30 hours of appropriate credit as determined by the College of Applied Sciences in the allied health specialty will be accepted for certified allied health personnel. If 30 hours are not acceptable, the difference may be made up through basic science courses or courses in specified areas of interest

Concentration selected from
Management, 12 hours ACCT 161, MGT 300, 302, 306
Education, 12-13 hours EDEM 405, PSY 321, EDSE 322, EDSE 487 (1-2 hours), EDHE 431

General electives (14-15 hours) are required to complete the program

Major in Nutrition and Dietetics, B.S Degree

General education, 41 hours

Program requirements, 11 hours CHEM 132, 133, PSY 250

The major requires 54-55 hours as follows
ND 132 Nutrition for Everyday Living, 3 hours
ND 231 Food Science, 4 hours
ND 330 Human Nutritional Needs, 3 hours
ND 334 Nutritional Applications, 3 hours
ND 433 Methods in Human Nutrition and Foods, 3 hours
ND 434 Experimental Methods in Foods, 4 hours
ND 436 Advanced Human Nutrition, 4 hours
ND 437 Diet Therapy, 3 hours
ND 439 Introduction to Professional Practice, 3 hours
FSM 333 Quantity Foods, 3 hours
FSM 430 Food Systems Management I, 3 hours
FSM 432 Food Systems Management II, 3 hours
BIOL 292 Human Anatomy and Physiology, 4 hours
BIOL 413 or 313 or HSCC 260 Principles of General Microbiology, 2 hours, or Microbiology in Health and Nutrition or Etiology of Infectious Diseases, 3 hours
MATH 170 Applied Statistics or PSY 251 Research Methods I, 3 hours
MGT 300 Introduction to Management, 3 hours
HE 317 Teaching Methodology, 3 hours

General electives (21-22 hours), including at least 10-13 hours at the junior-senior level, are required to complete the program
Minor in Nutrition and Dietetics
The minor requires 18-22 hours, including ND 231, 330 and 334, and 8 hours of approved electives.

DEPARTMENT OF HUMAN ENVIRONMENTAL SCIENCES
Davia Allen, Head
J Baldwin, L. Cowan, J Dowell, J Hall, S Skinner, M Yops, J Zhao

Major in General Home Economics, B S Degree
General education, 41 hours
The major requires 61 hours, including 6 hours in core courses (HE 270, 410) and the following:
ND 231 Food Science, 4 hours
FSM 333 Quantity Foods, 3 hours
ND 330 Human Nutritional Needs, 3 hours
CTM 141 Clothing Selection and Construction, 3 hours
CTM 242 Textiles, 3 hours
CTM 343 Tailoring, 3 hours
CDFR 261 Family Dynamics, 3 hours
CDFR 364 Human Development, 3 hours
IDSN 153 Introduction to Interior Design, 2 hours
IDSN 253 Space Planning and Color, 4 hours
HE 317 Teaching Methodology, 3 hours
HE 321 Family Finance, 3 hours
HE 483, 484, 485 Internship, 3 hours each course
CIS 251 Management Information Systems, 3 hours
COUN 430 Individual and Group Counseling, 3 hours
Departmental electives, 3 hours

General electives (26 hours), including a minimum of 21 hours at the junior-senior level, are required to complete the program.

Major in Child Development and Family Relations, B S Degree
General education, 41 hours
The major requires 62 hours, including the 3-hour core (CDFR 261) and the following:
CDFR 361 Environments for Young Children, 3 hours
CDFR 363 Child Development I, 3 hours
CDFR 364 Survey of Human Development, 3 hours
CDFR 367 Child Development II, 3 hours
CDFR 463 Infancy, 3 hours
CDFR 464 Family and Community, 3 hours
CDFR 465 Day Care Management, 3 hours
CDFR 466 Methods I, 3 hours
CDFR 467 Perspectives in Parenting, 3 hours
CDFR 468 Families Organization and Function, 3 hours
CDFR 469 Family Gerontology, 3 hours
CDFR 470 Methods II, 3 hours
CDFR 483, 484, 485 Internship, 3 hours each course
CDFR 497 Child and Family Seminar, 3 hours
HEAL 250 First Aid and Safety Education, 2 hours
ND 330 Human Nutritional Needs, 3 hours

Related electives (6 hours) approved by the adviser

General electives (25 hours) are required to complete the program.
Major in Clothing, Textiles, and Merchandising, B.S Degree

General education, 41 hours

Program requirements, 18 hours  ACCT 161, MGT 300, MKT 301, ECON 130, and 6 hours selected from MKT 306, 407, OA 304, MGT 304, 401, and 407

The major requires 51 hours, including the 3-hour core (CDFR 261) and the following
CTM 140 Fashion Analysis, 3 hours
CTM 242 Textiles, 3 hours
CTM 243 Apparel Quality Analysis, 3 hours
CTM 245 Dynamics of the Fashion Industry, 3 hours
CTM 246 Fashion Buying and Merchandising, 3 hours
CTM 340 Fashion in Retrospect, 3 hours
CTM 342 Apparel Production Processes, 3 hours
CTM 344 Fashion Design Fundamentals, 3 hours
CTM 346 Merchandising Apparel for Profit, 3 hours
CTM 347 Fashion Promotion, 3 hours
CTM 441 Textile and Apparel Economics, 3 hours
CTM 443 Cultural Aspects of Clothing, 3 hours
CTM 445 Fashion Product Analysis, 3 hours
CTM 446 Principles and Techniques of Fashion Retailing, 3 hours
CTM 483, 484 Internship, 3 hours each course

General electives (18 hours), including at least 6 hours at the junior-senior level, are required to complete the program

Major in Food Service Management, B.S Degree

This program is on inactive status and no new students are being enrolled

Major in Home Economics, B.S Ed Degree

General education, 41 hours

The major requires 46 hours, including the 6-hour core (HE 270, 410) and the following
ND 231 Food Science, 4 hours
FSM 333 Quantity Foods, 3 hours
CTM 141 Clothing Selection and Construction, 3 hours
CTM 242 Textiles, 3 hours
HE 311 Home Economics Curriculum and Materials, 3 hours
HE 321 Family Finance, 3 hours
ND 330 Human Nutritional Needs, 3 hours
IDSN 153 Introduction to Interior Design, 2 hours
IDSN 253 Space Planning and Color, 4 hours
CDFR 261 Family Dynamics, 3 hours
CDFR 363 Child Development, 3 hours

Guided electives, 6 hours

The professional-education sequence (28 hours) for secondary and special subject teaching and general electives (13 hours), including at least 8 hours at the junior-senior level, are required to complete the program

Major in Interior Design, B.S Degree

General education, 41 hours

Program requirements, 12 hours  ART 136 or 137, any art course numbered from 233 to 273, ART 131 and CTM 242
The major requires 62 hours, including the 6-hour core (HE 270, 410) and the following:
- IDSN 153 Introduction to Interior Design, 2 hours
- IDSN 253 Space Planning and Color, 4 hours
- IDSN 254 Perspective Drawing, 4 hours
- IDSN 351 Lighting Design for Interiors, 3 hours
- IDSN 353 Residential Design, 4 hours
- IDSN 355 History of Interiors and Furnishings I, 3 hours
- IDSN 356 Methods and Materials of Interior Design, 3 hours
- IDSN 357 Contract Design I, 4 hours
- IDSN 358 History of Interiors and Furnishings II, 3 hours
- IDSN 456 Contract Design II, 4 hours
- IDSN 458 Professional Practice in Interior Design, 3 hours
- IDSN 459 Portfolio Review, 1 hour
- IDSN 483 Internship, 3 hours
- IET 342 Construction Processes, 3 hours
- IET 350 Technical Illustration, 3 hours
- IET 351 Architectural Drafting and Design, 3 hours
- IET 352 Furniture and Architectural Drafting and Design, 3 hours
- MET 410 Computer Drafting, 3 hours

General electives (13 hours) including at least 2 hours at the junior-senior level

**Minor in Child Development and Family Relations**
The minor requires 24 hours, including 261, 361, 363, 364, 463, 466, 467, 468

**Minor in Clothing and Textiles**
The minor requires 21 hours, including 140, 242, 243, 340, 342, 344, and 441

**Minor in Family Services**
The minor requires 21 hours, including CDFR 261, 364, 464, 467, 469, HE 321, ND 330

**Minor in Fashion Merchandising**
The minor requires 21 hours, including CTM 242, 243, 245, 246, 346, 347, and 441 or 446

**Minor in Food Service Management**
The minor requires 21 hours, including 130, 231, 333, 430, 432, ND 330, and a 3-hour junior-senior elective selected from FSM 389, nutrition and dietetics, management, or food service management

**Minor in General Home Economics**
The minor requires 20 hours, including 12 hours selected from ND 231, CTM 242, CDFR 261, HE 321, 359, and 8 hours of electives

**Minor in Interior Design**
The minor requires 23 hours, including 153, 253, 254, 357, CTM 242, ART 131, 132

**DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY**
George DeSan, Head

M Adams, K Ayala, A Ball, J Cook, R Dalley, A Latorre, W Medaris, A Nielsen, J Pounds, J Turner, K Whitley, D Wood
Major in Electronics Engineering Technology, B.S. Degree

General education, 41 hours

Program requirements, 22 hours MATH 145, 146, 153, 255, PHYS 130, 131

The major requires 58 hours as follows
CS 150 Computer Programming I, 4 hours
MET 366 Manufacturing Materials, 3 hours
EET 141 Electronic Drafting, 1 hour
EET 142 Electronic Fabrication, 1 hour
EET 231 Circuit Analysis I, 4 hours
EET 232 Circuit Analysis II, 4 hours
EET 241 Digital Integrated Circuits I, 3 hours
EET 311 Solid State Devices, 4 hours
EET 312 Analog Integrated Circuits, 4 hours
EET 331 Digital Integrated Circuits II, 3 hours
EET 332 Microcontrollers, 3 hours
EET 341 Advanced Circuit Analysis, 3 hours
EET 352 Electrical Motors and Controls, 3 hours
EET 431 Microprocessor Fundamentals, 3 hours
EET 432 Microprocessor Applications, 3 hours
EET 441 Communication Systems, 4 hours
EET 452 Control Systems, 4 hours
EET 478 Senior Design Project Proposal, 1 hour
EET 479 Senior Design Project, 3 hours

Seven hours of junior-senior level electives are required to complete the program. The upper-level credit requirement may be met by hours waived within the general education component.

Major in Industrial Distribution, B.S. Degree

General education, 41 hours

Program requirements, 16 hours MATH 130, 144, 170, PHYS 130, ECON 231

The major requires 61 hours as follows
ID 130 Blueprint Reading, 1 hour
ID 230 Industrial Distribution, 3 hours
ID 360 Industrial Distribution Organization, 3 hours
IET 140 Furniture Manufacturing, 4 hours
IET 260 Metals Technology, 4 hours
IET 335 Industrial Safety, 3 hours
IET 361 Machining Processes, 4 hours
IET 370 Electricity, 4 hours
IET 371 Electronics, 4 hours
IET 420 Polymer Technology, 4 hours
IET 423 Fluid Systems, 3 hours
MET 160 Industrial Computer Applications, 3 hours
MET 460 Materials Management, 3 hours
MKT 301 Principles of Marketing, 3 hours
MKT 304 Consumer Behavior, 3 hours
MKT 306 Professional Selling, 3 hours
MKT 405 Marketing Management, 3 hours
LAW 230 Legal Environment of Business, 3 hours
ACCT 161 Accounting for the Non-Business Major, 3 hours

General electives (10 hours) at the junior-senior level are required to complete the program.
Major in Industrial Technology, B.S Degree

General education, 41 hours

Program requirements, 13 hours  MATH 130, 144, PHYS 130, ECON 231

The major requires 61 hours as follows
- IET 140 Furniture Manufacturing, 4 hours
- IET 150 Engineering Graphics, 4 hours
- IET 260 Metals Technology, 4 hours
- IET 335 Industrial Safety, 3 hours
- IET 361 Machining Processes, 4 hours
- IET 370 Electricity, 4 hours
- IET 371 Electronics, 4 hours
- IET 420 Polymer Technology, 4 hours
- IET 423 Fluid Systems, 3 hours
- MATH 170 Applied Statistics, 3 hours
- MGT 300 Introduction to Management, 3 hours
- MGT 304 Personnel Management, 3 hours
- OA 403 Business Research Reports, 3 hours
- MET 160 Industrial Computer Applications, 3 hours
- MET 363 Methods and Standards, 3 hours
- MET 410 Computer Drafting, 3 hours
- MET 460 Materials Management, 3 hours
- MET 462 Quality Control, 3 hours

General electives (13 hours), including at least 8 hours at the junior-senior level, are required to complete the program

Major in Industrial Arts Education, B.S.Ed Degree

This program is on inactive status and no new students are being enrolled

Major in Manufacturing Engineering Technology, B.S. Degree

General education, 41 hours

Program requirements, 27 hours  MATH 170, 145, 146, 153, PHYS 130, 131, ECON 231, MGT 300

The major requires 55 hours as follows
- IET 150 Engineering Graphics, 4 hours
- IET 260 Metals Technology, 4 hours
- IET 335 Industrial Safety, 3 hours
- IET 361 Machining Processes, 4 hours
- IET 370 Electricity, 4 hours
- IET 371 Electronics, 4 hours
- IET 420 Polymer Technology, 4 hours
- MET 160 Industrial Computer Applications, 3 hours
- MET 351 Statics and Dynamics, 3 hours
- MET 352 Strength of Materials, 3 hours
- MET 363 Methods and Standards, 3 hours
- MET 440 Fluid Power, 3 hours
- MET 460 Materials Management, 3 hours
- MET 462 Quality Control, 3 hours
- MET 465 Engineering Economy, 3 hours
- MET 478 Senior Project Proposal, 1 hour
- MET 479 Senior Project, 3 hours

General electives (5 hours) are required to complete the program
Major in Occupational Education for Trade and Industry, B.S.Ed. Degree

This program is on inactive status and no new students are being enrolled.

Minor in Industrial Distribution

A minor of 18-24 hours may be arranged with the approval of the industrial distribution coordinator to meet the individual needs and interests of non-majors.

Minor in Industrial Technology

A minor of 16-24 hours may be arranged with the approval of the industrial technology coordinator to meet the individual needs and interests of non-majors.

Certification in Trade and Industrial Education

Trade Preparatory and Introduction to Trades teachers are certified on the basis of occupational experience, trade/technical competencies, and professional education course work. The following courses are required: IET 132, 430, 437, EDSE 320, EDEM 405, EDRD 323, PSY 321. Questions regarding certification should be directed to the Department of Industrial and Engineering Technology.

Occupational Safety Certificate

Students may elect to include in their programs of study a 14-15 hour sequence in the area of occupational safety. Emphasis is placed on application, interpretation, and administration of the federal Occupational Safety and Health Act and other regulations to assist students to develop entry-level expertise that can be applied directly in industry. Students who complete HEAL 120 or HSEH 230 or HSEH 457, HSCC 240, IET 335, 336 and 337, or their equivalents, with a minimum GPA of 2.0, will be awarded a certificate in occupational safety by the Department of Industrial and Engineering Technology. The certificate is cosponsored by the North Carolina Industrial Commission. Majors in industrial technology who elect these courses will have completed a degree program that closely parallels a typical bachelor’s degree program in occupational safety and health.

DEPARTMENT OF MILITARY SCIENCE

Jerry M. Darnell, Head

B. Colgan, R. Ferguson, J. P. Fletcher, N. Jenkins, Jr.

This program is designed to train quality college students in leadership roles to become commissioned officers filling executive positions in the Army.

Students who, as a part of their degree programs, successfully complete the requirements in military science, and upon recommendation of the Professor of Military Science, will be commissioned second lieutenants in the United States Army, Army Reserve, or Army National Guard upon graduation.

The objectives of the program are to enhance the academic atmosphere through effective time management, physical and mental enrichment, and development of leadership fundamentals, to gain a basic understanding of associated professional knowledge and a strong sense of personal integrity, honor, and individual responsibility, and to establish a sound basis for future professional development.
The ROTC program consists of the basic course for freshmen and sophomores and the advanced course for juniors and seniors. Members of the Army, Navy, Air Force, Marine Corps, or Coast Guard on active duty, commissioned officers and former commissioned officers of these services, and officers of the Public Health Service or National Oceanic and Atmospheric Administration are not eligible for enrollment in the basic or advanced courses. Students with two or more years of high school ROTC training are eligible for advanced placement as determined by the professor of military science. Veterans who have completed one year of active duty and who received an honorable discharge may enter the advanced course. Students interested in completing the program in less than four years should consult the head of the department.

Information about compensation and scholarships for students enrolled in the advanced course will be found in the section of this catalog on financial aid.

The Curriculum The ROTC curriculum consists of 20 hours of military science courses and 3 hours in American Military History (HIST 354). Students simultaneously major in a regular academic discipline to meet degree requirements.

The Basic Course offers four military science courses—MS 130, MS 131, MS 240, and MS 241. These courses consist of an hour of classroom instruction per week and a one-hour laboratory every other week. These classes may be taken as electives and there is no commitment to military service involved.

The Advanced Course consists of four courses which are taken in the junior and senior years. A three-hour advanced course, either MS 331, MS 332, MS 430, or MS 431, is required each semester. A military leadership laboratory meeting one hour every week is included in the course. Students also will enroll in HIST 354 during their junior year and are required to attend advanced camp during the summer between their junior and senior year. Academic credit for advanced camp is optional. There are several alternate ways to get credit for the basic course.

DEPARTMENT OF NURSING

Vivian Deitz, Head

T Barringer, M Carlyle, C Geister, J Glasscock, M Haas, V Hall, C Hill, J Howe, S Jacques, A Johnson, B Kruse, E Simmons-Rowland, B Smith, C Stephens, W Ziegler

Major in Nursing, B S N Degree/General Curriculum Option

General education, 41 hours

Program requirements, 22 hours: BIOL 291, 292, CHEM 132, 133, HSCC 260, PSY 250 or approved substitute.

The major requires 53 hours as follows:
NSG 340 Basic Nursing Skills, 3 hours
NSG 350 Dimensions of Professional Nursing, 2 hours
NSG 353, 355, 466, 467 Nursing Science I, II, III, IV, 18 hours
NSG 383, 385, 486, 487 Clinical Practicum I, II, III, IV, 15 hours
NSG 460 Nursing Leadership and Management, 2 hours
NSG 470 Nursing Research, 3 hours
NSG 475 Perspectives of the Nursing Profession, 2 hours
NSG 480 Independent Study, 1 hour
ND 336 Normal Nutrition, 2 hours
ND 337 Therapeutic Nutrition, 2 hours
HSCC 370, Introduction to Pharmacology, 3 hours

General electives (12 or more hours)
Capstone Curriculum Requirements

General education, 41 hours

Program requirements, 22 hours  BIOL 291, 292, CHEM 132, 133, HSCC 260, PSY 250 or approved substitute

The major requires 52-53 hours as follows
NSG 301 Transition to Professional Nursing, 3 hours
NSG 302 Health Promotion in the Community, 3 hours
NSG 384 Practicum in Community Health Nursing, 3 hours
NSG 399 Seminar  Professional Nursing Knowledge and Skills, 2 hours
Credit by exam, 26 hours (in lieu of NSG 340 and 466, HSCC 370, and portions of  NSG 353, 355, 383, 385, 467, and 486)
NSG 460 Nursing Leadership and Management, 2 hours
NSG 470 Nursing Research, 3 hours
NSG 475 Perspectives of the Nursing Profession, 2 hours
NSG 480 Independent Study, 1-2 hours
NSG 483 Practicum in Clinical Management, 3 hours
ND 336 Normal Nutrition, 2 hours
ND 337 Therapeutic Nutrition, 2 hours

General electives (12-13 hours) are required to complete the program
The role of the College of Arts and Sciences is to serve as a community of scholarship involving students and faculty in a broad range of intellectual and aesthetic activities.

The most significant of these activities is the teaching/learning process that takes place between students and faculty in classrooms, laboratories, studios, and field locations. The college provides a varied curriculum in the fine arts, humanities, and sciences. The curriculum includes general-education courses that provide the basic intellectual skills and perspectives essential for preparing all university students for effective participation in modern life. In addition, specialized courses are offered that serve the baccalaureate and graduate degree programs of this college and its sister colleges. Many departments in the college are becoming more actively involved in teacher preparation.

Scholarly productivity through a variety of discipline-related activities is essential to the growth of the college and university. For this purpose, the faculty engage in research, creative activities, and publication. Students are often directly involved in these scholarly activities, which enhance the reputation of the college and university in the broader academic world.

The activities of the college also include service to the university, region, state, nation, and the international community. Faculty members act as advisers for undergraduate and graduate students and support extracurricular activities. Faculty participate in university governance through membership on departmental, school, and university committees. College faculty also share intellectual, cultural, and problem-solving interests with audiences throughout western North Carolina and beyond.

Program Requirements: School-level program requirements for all bachelor of arts degree programs include MFL 231-232 or 240.

DEPARTMENT OF ART

Robert Godfrey, Head

R Borge, B Buchanan, L. Budahl, J Byrd, C Griffin, J Jicha, L Petrovich-Mwaniki, J Smythe, J Thompson

Major in Art, BFA Degree

General education, 41 hours

Program requirements, 3 hours PHIL 310

The major requires 63 hours as follows:
131 Introductory Drawing, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
141 Figure Drawing, 3 hours
142 Three-Dimensional Design, 3 hours
416 Contemporary Art History, 3 hours

Art history electives (6 hours) at the junior-senior level. Studio electives (12 hours) selected from 233, 234, 241, 251, 270, 350, 352, 354, 372, and 458 (Students in graphic design must take 270 and 372).

Concentration (24 hours) selected from:

Studio Courses taken in no more than two areas, selected from painting/drawing, printmaking, sculpture, ceramics, and photography to include at least 18 hours at the junior-senior level.
Graphic Design  ART 370, 371, 374, 474, 475, and 483 or 389, and 9 hours selected from photography, graphic design, and illustration at the junior-senior level

General electives (21 hours), including at least 12 hours at the junior-senior level, are required to complete the program.

**Major in Art, B.A. Degree**

General education, 41 hours

Program requirements, 6 hours  MFL 231-232 or 240

The major requires 36 hours as follows

131 Introductory Drawing, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
PHIL 310 Philosophy of Art, 3 hours

Studio emphasis (21 hours), including at least 12 hours at the junior-senior level, or an art history emphasis to include 15 hours in junior-senior art history courses and 6 hours of art electives.

To complete the program, a total of 45 hours is required, including at least 18 hours of general electives and a second major, minor, or other approved program. The 45-46 hours must be selected to include at least 24 hours at the junior-senior level.

**Major in Art, B.S Ed Degree**

General education, 41 hours

The major requires 54 hours as follows

131 Introductory Drawing, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
142 Three-Dimensional Design, 3 hours
263 Introduction to Art Education, 1 hour
363 Art for Children, 2 hours
367 History and Philosophy of Art Education, 3 hours
416 Contemporary Art History, 3 hours
463 Art Education Planning, Materials and Methods, 3 hours
3 hours art history electives at the junior-senior level
18 hours art studio 233, 234, 241, 251, 270, 372
9 hours art studio electives selected as 300- or 400-level courses in the same studio discipline.

The professional-education sequence (25 hours) for secondary and special subject teaching, exclusive of the methods course, and general electives (5 hours) are required to complete the program.

**Minor in Art**

The minor requires 21 hours, including 131, 132, 136, 137, and 9 hours of art electives selected with the advice of the head of the art department.

**ARTS AND SCIENCES INTERDISCIPLINARY PROGRAMS**

*Rosemary DePaolo, Dean*

**Minor in American Studies**

The minor requires 18 hours in courses designed to provide insight into the interrelationships of art, literature, music, philosophy, history, geography, society, politics, and other facets of American culture. Requirements include ASI 301, 493, and 12 hours of guided electives selected from at least two areas. Guided electives may include a second seminar in ASI 493 ENGL 203 and HIST 231, 232 are recommended as preparatory courses for the minor.
Minor in Cherokee Studies

The minor requires 21 hours, including HIST 445, CHER 131, 132, ANTH 461, 473, and 6 hours of electives selected from CHER 231, 232, ANTH/ART 379, and USI 394.

Minor in International Studies

The minor is open to juniors and seniors majoring in anthropology, economics, geography, history, foreign language, political science, or sociology. In addition to meeting the requirements for a major in one of the participating departments, the student must complete 21 hours, including PSC 331, 480, and 15 hours in approved electives in two or more areas outside the major field.

Minor in Social Change

The minor requires 24 hours, including SOC 231, 304, and 18 hours of core electives from SOC 432, 434, 448, 454, ANTH 349, HIST 435, 436, ECON 401, 406, GEOG 460, PSC 302, 316, 436, SOCW 373.

Minor in Race, Ethnic and Gender Relations

The minor requires 24 hours, including SOC 231, 314, 414, 326, and 12 hours of core electives from SOC 423, 448, 454, ANTH 417, HIST 442, 445, 446, 451, 463, PSC 411, PSY 333, SOCW 402, ANTH 473.

DEPARTMENT OF BIOLOGY

Roger Lumb, Head

R Bruce, F Coyle, L DelForge, J Frick-Ruppert, F Harrison, F Hinson, H Mauwaring, A Moore, D Perlmutter, D Pittillo, I Pritchard, S Rundle, J Wallace, J West, P Wright

Major in Biology, B.S Degree

General education, 41 hours

Program requirements with all emphases, 4 hours CHEM 135. Additional requirements with the preprofessional emphasis, 14 hours, including MFL 231-232 or 240, MATH 130 and MATH 140 or equivalent, with the math emphasis, 6 hours in MATH 145 and 146, with a horticulture emphasis, 3 hours in MATH 130, with a computer science/statistics emphasis, 5 hours in MATH 140, with a business emphasis, 6 hours in MATH 130, 170, and with a parks and recreation management emphasis, 5 hours in MATH 140 and 4 hours in physics, exclusive of courses taken to meet general education requirements.

The major requires 55-65 hours as follows:

130, 131 General Botany and General Zoology, 8 hours
232 General Ecology, 3 hours
242 Genetics and Evolution, 3 hours
311 Animal Physiology, 2 hours
315 Introduction to Plant Physiology, 1 hour
333 Cell and Molecular Biology, 3 hours
CHEM 136 General Chemistry, 4 hours

Emphasis area (28-38 hours) selected from one of the following:

- **Computer Science/Statistics**, 37 hours CS 150, 151, 250, 262, MATH 270, 375, 310, PHYS 130, 131, and 8 hours of junior-senior biology electives.
- **Horticulture**, 38 hours 8 hours selected from BIOL 413, 414, 415, 451, 455, and up to 30 hours in horticulture courses accepted in transfer with the approval of the department head.

**NOTE:** Horticulture courses are not taught at Western Carolina University.

- **Mathematics**, 30 hours MATH 153, 255, 262, CS 150, 8 hours of math/computer science electives, and 8 hours of junior-senior biology electives.
- **Parks and Recreation Management**, 35 hours PRM 150, 250, 350, 370, 440, 460, 483, 484, 495, and 12 hours of junior-senior biology electives.
Preprofessional, 28 hours  CHEM 241, 242, 271, PHYS 130, 131, and 12 hours of junior-senior biology electives

Environmental Health, 38 hours  BIOL 413, 414, CHEM 133, a physics course (additional to courses taken to meet general education requirements), HSEH 230, 310, 320, 330, 440, 460, 470, 483

Business, 34 hours  FIN 305, ACCT 161, ECON 231, 232, MGT 300, MKT 301, PHYS 130, 131, and 8 hours of junior-senior biology electives

General electives (15-23 hours), are required to complete the program  At least half of the hours selected must be at the junior-senior level  Recommended electives include CIS 251 and BIOL 389 with the horticulture emphasis, GEOL 305 with the environmental health emphasis, CIS 251 with the business emphasis

Major in Biology, B.S.Ed Degree

General education, 41 hours

Program requirements, 11 hours  MATH 130, 140, CMCR 250

The major requires 46 hours as follows
130, 131 General Botany and General Zoology, 8 hours
232 General Ecology, 3 hours
242 Genetics and Evolution, 3 hours
311 Animal Physiology, 2 hours
315 Introduction to Plant Physiology, 1 hour
333 Cell and Molecular Biology, 3 hours
CHEM 135, 136 General Chemistry, 8 hours
PHYS 130, 131 Introductory Physics, 8 hours
Biology electives (8 hours) at the junior-senior level

The professional education sequence (28 hours) for secondary and special subject teaching and 4 hours of general electives are required to complete the program  At least 3 of the general education hours eligible for waiver through this program must be taken in junior-senior courses

Minor in Biology

The minor requires 20 hours, including 130, 131, 232, 242, 311, 315, and 333

DEPARTMENT OF CHEMISTRY AND PHYSICS

Richard Berne, Head


Major in Chemistry, B A Degree

General education, 41 hours

Program requirements, 22 hours  MATH 130 or 146 and 140, PHYS 130, 131, MFL 231-232 or 240

The major requires 35 hours as follows
135, 136 General Chemistry, 8 hours
241, 242 Organic Chemistry I, II, 6 hours
271 Chemical Techniques, 2 hours
321 Inorganic Chemistry, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
432 Instrumental Analysis, 3 hours
451 Biophysical Chemistry, 4 hours
495 Seminar, 2 hours

A minor, second major, or other approved program and general electives (30 hours), including at least 12 hours at the junior-senior level, are required to complete the program. Premedical and predental students may complete the program by taking 6 hours of general electives and 24 hours selected from BIOL 131, 132, 134, 242, 291, 292, 311, 361, 374, 417, 419, 421, 478.

Students may complete teacher certification requirements in science through this program by completing the professional-education sequence and appropriate electives.

Major in Chemistry, B.S. Degree

General education, 41 hours
Program requirements, 21 hours  MFL 231 (German recommended), MATH 145, 146, 153, PHYS 230, 231

The major requires 47 hours as follows
135, 136 General Chemistry, 8 hours
241, 242 Organic Chemistry I, II, 6 hours
271 Chemical Techniques, 2 hours
321 Inorganic Chemistry, 3 hours
352 Physical Chemistry I, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
432 Instrumental Analysis, 3 hours
453 Physical Chemistry II, 3 hours
495 Seminar, 2 hours
MATH 255 Calculus II, 4 hours
Chemistry electives (6 hours) at the junior-senior level exclusive of experiential courses and exclusive of CHEM 330

General electives (19 hours), including at least 9 hours at the junior-senior level, are required to complete the program.

Major in Chemistry, B.S. Degree - Professional Level

All requirements are the same as for the regular bachelor of science degree program except that MATH 256, four hours of CHEM 380, and a 3-hour physics elective at the junior-senior level also are required. General electives total 8 hours.

Major in Industrial Chemistry, B.S. Degree

General education, 41 hours
Program requirements, 22 hours  CMCR 150, MATH 130, 140, PHYS 130, 131, ECON 130

The major requires 60 hours as follows
135, 136 General Chemistry, 8 hours
241, 242 Organic Chemistry I, II, 6 hours
271 Chemical Techniques, 2 hours
311 Industrial Chemistry, 3 hours
321 Inorganic Chemistry, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
432 Instrumental Analysis, 3 hours
451 Biophysical Chemistry, 4 hours
ACCT 161 Accounting for Non-Business Majors, 3 hours
CMHC 312 Group Discussion and Conference, 3 hours
CMHC 315 Organizational and Industrial Communication, 3 hours
ENGL 401 Writing for the Professions, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 302 Labor-Management Relations, 3 hours
MGT 304 Personnel Management, 3 hours
MKT 301 Principles of Marketing, 3 hours

General electives (5 hours), including at least 3 hours at the junior-senior level, are required to complete the program.

Major in Physics, B.S Degree

General education, 41 hours

Program requirements, 14 hours MATH 145, 146, CHEM 135, 136

The major requires 49 hours as follows
130-131 or 230-231 Introductory Physics or General Physics, 8 hours
302 Electronics, 4 hours
310 Modern Physics, 3 hours
350 Atomic Physics, 4 hours
360 Laboratory Physics, 2 hours
411 Theoretical Physics, 3 hours
495 Seminar in Physics, 1 hour

Physics electives (9 hours) at the junior-senior level exclusive of experiential courses
MATH 153, 255, 256 Calculus I, II, III, 12 hours
MATH 320 Ordinary Differential Equations, 3 hours

General electives (24 hours), including at least 18 hours at the junior-senior level, are required to complete the program. Students are urged to plan a program leading to a competency in a second area.

Major in Science Education (General Science), B.S Ed. Degree

General education, 41 hours

Program requirements, 8 hours MATH 130, 140

The major requirement provides three options, including biology, chemistry, or geology

Biology, 49 hours
130, 131 General Botany and General Zoology, 8 hours
232 General Ecology, 3 hours
242 Genetics and Evolution, 3 hours
311 Animal Physiology, 2 hours
333 Cell and Molecular Biology, 3 hours
CHEM 135, 136 General Chemistry, 8 hours
GEOL 150 or 155 (Introduction to Physical Geology or Introduction to Historical Geology), 4 hours
PHYS 130, 131 Introductory Physics, 8 hours

Biology electives (10 hours) at the junior-senior level

Chemistry, 46 hours
135, 136 General Chemistry, 8 hours
241, 242 Organic Chemistry I, II, 6 hours
271 Chemical Techniques, 2 hours
321 Inorganic Chemistry, 3 hours
352 Physical Chemistry I, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
432 Instrumental Analysis, 3 hours

401 Writing for the Professions, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 302 Labor-Management Relations, 3 hours
MGT 304 Personnel Management, 3 hours
MKT 301 Principles of Marketing, 3 hours

General electives (5 hours), including at least 3 hours at the junior-senior level, are required to complete the program.
495 Seminar, 2 hours
BIOL 130 or 131 or GEOL 150 or 155 (General Botany or General Zoology or Introduction to Physical Geology or Introduction to Historical Geology), 4 hours
PHYS 130, 131 Introductory Physics, 8 hours

Geology, 50 hours
150, 155 Introduction to Physical and Historical Geology, 8 hours
252 Mineralogy, 4 hours
302 Geomorphology, 4 hours
371 Structural Geology, 3 hours
420 Sedimentation, 3 hours
421 Stratigraphy, 3 hours
BIOL 130 or 131 General Botany or General Zoology, 4 hours
CHEM 135, 136 General Chemistry, 8 hours
PHYS 130, 131 Introductory Physics, 8 hours
Geology elective (5 hours) at the junior-senior level

Professional-education sequence, 28 hours (for each option)

General electives, 1-4 hours

Minor in Chemistry
The minor requires 21 hours, including 135, 136, 241, 242, 271, 370, and 2 hours of junior-senior chemistry electives

Minor in Physics
The minor requires 20 hours, including 130-131 or 230-231, and 12 hours of junior-senior electives

DEPARTMENT OF COMMUNICATION AND THEATRE ARTS
Lawrence Hill, Head


Major in Communication, B.S Degree

General Education, 41 hours

Program Requirements, 6 hours  
CIS 293 Beg Micro Applications and 3 hours in statistics
The major requires 46 hours including 25 required hours in communication core courses (CMCR) and a 21-hour concentration

Required Communication Core Courses, 25 hours
CMCR 140 Introduction to Mass Communications, 3 hours
CMCR 150 Interpersonal Communication, 3 hours
CMCR 250 Public Communication, 3 hours
CMCR 301 Writing for Mass Communications, 3 hours
CMCR 350 Communication Theory and Research, 3 hours
CMCR 389 Cooperative Education in Communication or
CMCR 483 Internship in Communication, 3 hours
CMCR 401 Editing for Mass Communications, 3 hours
CMCR 465 Communications Ethics and Responsibilities, 3 hours
CMCR 496 Seminar in Professional Development, 1 hour
Concentrations, at least 21 hours selected from

**Electronic Media (CMEM)** CMEM 354, 355 and CMHC 311 required, 12 hours selected from CMEM 351,358,450,451,452,454,455,456,457,458,459,493

**Human Communication (CMHC)** CMHC 311,312,313,314,315 required, 6 hours selected from CMHC 411, 414, 415, CMPR 360, SOC 326,414,448, and PSC 302,336,411

**Print Media (CMPM)** CMPM 302 required, 9 hours from the following CMPM 303, 304, 305, 402, 403, 404 and CMPR 360, and 9 hours selected from advisor approved courses

**Public Relations (CMPR)** 6 hours selected from CMPR 360,460,493, 6 hours selected from CMPM 303,304,403,404, and 9 hours selected from advisor approved courses in Marketing, Psychology, Sociology, or Political Science

To complete the program, a total of 35 hours is required, including at least 12 hours of general electives and a minor, second major, or other approved programs. The courses must include at least 14 to 17 hours at junior or senior level, depending on courses in PR concentration. Students may not minor in another communication concentration or the minor in journalism offered in the Department of English

**Major in Speech and Theatre Arts, B A Degree**
Speech Concentration deleted - See Communication B S

**General Education, 41 hours**

Program requirements, 6 hours MFL 231-232 or 240

The Theatre concentration requires 40 hours as follows

- **CMTA 130** Makeup, 1 hour
- **CMTA 131** Introduction to Theatre, 3 hours
- **CMTA 140** Acting I, 3 hours
- **CMTA 231** Stagecraft I, 3 hours
- **CMTA 300** Dramatic Literature and Criticism I, 3 hours
- **CMTA 301** Dramatic Literature and Criticism II, 3 hours
- **CMTA 331** Stagecraft II, 3 hours
- **CMTA 340** Acting II, 3 hours
- **CMTA 350** Directing I, 3 hours
- **CMTA 400** History of the Theatre I, 3 hours
- **CMTA 401** History of the Theatre II, 3 hours
- **CMTA 496** Seminar in Professional Development, 1 hour

Plus 8 hours of CMTA junior-senior electives

To complete the program, a total of 41 hours is required, including a minor, second major or approved program and at least 12 hours of general electives. At least 21 of the hours must be taken at the junior-senior level

**Major in Theatre, B F.A Degree**

**General Education, 41 hours**

The major requires an entry audition, yearly evaluation, and 64 hours

**Required Courses**

- **CMTA 130** Makeup, 1 hour
- **CMTA 131** Introduction to Theatre, 3 hours
CMTA 140 Acting I, 3 hours
CMTA 231 Stagecraft I, 3 hours
CMTA 300 Dramatic Literature and Criticism I, 3 hours
CMTA 301 Dramatic Literature and Criticism II, 3 hours
CMTA 331 Stagecraft II, 3 hours
CMTA 340 Acting II, 3 hours
CMTA 350 Directing I, 3 hours
CMTA 400 History of the Theatre I, 3 hours
CMTA 401 History of the Theatre II, 3 hours
CMTA 496 Seminar in Professional Development, 1 hour
CMTA 499 BFA Thesis, 2 hours

A interdisciplinary core of 15 hours 12 hours from ART 136, 137, HIST 221, 222, 3 hours ENGL 333 or 431

A concentration of 15 hours selected from one area

Acting 6 hours from ANTH 260, PSY 250, PHIL 310, 312, 9 hours from CMTA 341, 345, 346, 351, 441, CMHC 311

Costume Design 3 hours from CTM 242, 342, 343, 344, CTM 340, CMTA 332, 337, 437

Lighting Design 6 hours from ART 131, IET 150, HEAL 250, IDS N 153, CMTA 332, 335, 435

Scenic Design 6 hours from ART 131, IET 150, HEAL 250, IDS N 153, CMTA 332, 333, 433

Technical Production 6 hours from ART 131, IET 150, HEAL 250, CMTA 332, 6 hours from CMTA 330, 333, 335, 337

To complete the program, a total of 23 hours of general electives is required, depending on the concentration, selection of courses between 12 and 15 hours must be at the junior-senior level. A student will have only one concentration in the BFA degree.

Minor in Communications

The minor requires 24 hours 6 hours program requirements (CIS 293 Beg Micro Applications and 3 hours in statistics) and 18 hours of core courses CMCR 140, 150, 250, 301, 350, and 401

Minor in Theatre

The minor requires 24 hours CMTA 131, 140, 231, 300 or 301, 331, 340, 350, 400 or 401

DEPARTMENT OF ENGLISH

J Karl Nicholas, Head


Major in English, B A Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 39 hours as follows 251 Survey of English Literature I, 3 hours
252 Survey of English Literature II, 3 hours
330 Introduction to Literary Interpretation, 3 hours

Concentration (30 hours) selected from

Literature 12 hours selected from ENGL 361 or 362, 420, 431, 440, 441, 451, 470, 3 hours
selected from ENGL 311, 312, 412, 415, 498, and 12 hours of junior-senior English
courses, 6 of which must be literature

Writing and Editing ENGL 303, 389 or 483, and 497, 15 hours selected from ENGL 305,
306, 307, 308, 309, 312, 401, 405, 493, JOUR/RTV 140, 301, JOUR 303, 304, 393, 401,
403, 420, and 6 hours selected from junior-senior English literature courses

Journalism The 30 hour concentration will consist of courses in English and Communication
Print Media, as specified by the English Department

To complete the program, a total of 42 hours is required, including a minimum of 18 hours
generally elective, a minor, second major, or other approved program, and appropriate
credits (21-27 hours) at the junior-senior level

Major in English, B.S Ed Degree

General education, 41 hours

Program requirements, 9 hours MFL 231-232 or 240 and STA 250

The major requires 39 hours as follows
251 Survey of English Literature I, 3 hours
252 Survey of English Literature II, 3 hours
311 History of the English Language, 3 hours
312 or 412 or 415 Grammar for Writing or Modern English Structure or Linguistics, 3 hours
330 Introduction to Literary Interpretation, 3 hours
361 Survey of American Literature I, 3 hours
362 Survey of American Literature II, 3 hours
414 Fundamentals of Teaching Composition, 3 hours
478 Film as Literature, 3 hours
496 Seminar in Comparative Literature, 3 hours
EDEL 467 Adolescent Literature, 3 hours

Electives (6 hours) selected from 420, 431, 440, 441, 451, 470

The professional-education sequence (28 hours) for secondary and special-subject teaching
and general electives (11 hours) are required to complete the program

Minor in English

The minor requires 18 hours in English above the sophomore level

Minor in Writing and Editing

The minor requires 18 hours, including ENGL 303 and 15 hours selected from writing and/
or journalism courses

Minor in Communications

See the listing in the Department of Communication and Theatre Arts

Minor in Literature

The minor requires 18 hours of literature courses, exclusive of those approved for general-
education credit

Minor in Journalism

The requirements for the minor in Journalism can be obtained from the Department of English
DEPARTMENT OF GEOSCIENCES AND ANTHROPOLOGY

Anne Rogers, Head

R Gurevich, B Idleman, P Morris, N Mwanki, J Neff, J Reynolds, R Triplette, P White, J Wilcox, S Yurkovich

Major in Geography, B.S. Degree

General education, 41 hours

Program requirements, 8 hours  GEOL 150, MATH 170, 171

The major requires 50 hours as follows
150 Environmental Geography, 3 hours
320 Map Interpretation, 3 hours
322 Cartography, 4 hours
324 Remote Sensing, 4 hours
326 Research Methods in Geography, 3 hours
350 Economic Geography, 3 hours
440 Topics in Regional Geography, 3 hours
Geography electives (27 hours) at the junior-senior level  It is recommended that students develop a specialization within the major  An emphasis may be designed in consultation with the adviser, or a student may select one of the following

Physical Geography  300, 302, 305, 400, 402
International Studies  402, 444, and 440

General electives (29 hours), including at least 7 hours at the junior-senior level, are required to complete the program

Major in Geography-Planning, B.S. Degree

General education, 41 hours

Program requirements, 8 hours  GEOL 150, MATH 170, 171

The major requires 49 hours as follows
150 Environmental Geography, 3 hours
302 Geomorphology, 4 hours
305 Soils and Hydrology, 4 hours
320 Map Interpretation, 3 hours
322 Cartography, 4 hours
324 Remote Sensing, 4 hours
326 Research Methods in Geography, 3 hours
350 Economic Geography, 3 hours
402 Conservation of Natural Resources, 3 hours
460 Urban and Regional Land Use Planning, 3 hours
462 Urban Geography, 3 hours
464 Industrial Location, 3 hours
Geography electives, 9 hours

General electives (30 hours), including at least 18 hours at the junior-senior level, are required to complete the program  A minor in economics, geology, political science, sociology, or other approved discipline may be selected or the student may select from a variety of courses to complete degree requirements

Major in Geology, B.A. Degree

General education, 41 hours

Program requirements, 9 hours  MFL 231-232 or 240, MATH 130 or 146

The major requires 48 hours as follows
150, 155 Introduction to Physical and Historical Geology, 8 hours
252 Mineralogy, 4 hours
302 Geomorphology, 4 hours
371 Structural Geology, 3 hours
420 Sedimentation, 3 hours
421 Stratigraphy, 3 hours
CHEM 135, 136 General Chemistry, 8 hours
PHYS 130, 131 Introductory Physics, 8 hours
Geology electives at the junior-senior level, 7 hours

General electives (30 hours), including at least 18 hours at the junior-senior level, are required to complete the program.

This program is designed for the liberal arts student who may seek a career in environmental science, planning, or a related area. Students who expect to become professional geologists or who expect to take a graduate degree in geology should complete the requirements for the bachelor of science degree program in geology.

Major in Geology, B.S. Degree

General education, 41 hours

Program requirements, 17-18 hours
CHEM 135, 136, and either MATH 145, 146, and 153, or MATH 170 and 6 additional hours selected from MATH 130, 145, 146

The major requires 49 hours as follows:
150, 155 Introduction to Physical and Historical Geology, 8 hours
252 Mineralogy, 4 hours
351 Optical Mineralogy and Petrography, 3 hours
352 Igneous and Metamorphic Petrology, 4 hours
371 Structural Geology, 3 hours
420 Sedimentation, 3 hours
421 Stratigraphy, 3 hours
471 Tectonics, 3 hours
PHYS 130-131 or 230-231 Introductory Physics or General Physics, 8 hours
Geology, math, or science electives, 6 hours
Geology summer field course to be taken at an accredited institution with approval of the department head, 4 hours

General electives (20-21 hours), including at least 12 hours at the junior-senior level, are required to complete the program.

Major in Anthropology, B.A. Degree

General education, 41 hours

Program requirements, 6 hours
MFL 231-232 or 240

The major requires 36 hours as follows:
250 Archeology and Bioanthropology, 3 hours
260 Cultural and Social Anthropology, 3 hours
341 History of Anthropological Theory, 3 hours
419 Comparative Family, 3 hours
Electives (6 hours) selected from 327, 349, 351, 365
Elective (3 hours) selected from 361, 431, 441
Elective (3 hours) selected from 380, 440, 466
Electives (6 hours) selected from 417, either 461 or 473, 464, 477
Anthropology electives (6 hours) in junior-senior courses

To complete the program, 45 hours are required, including a minor, second major, or other approved program and at least 18 hours of general electives. At least 21 hours of these courses taken must be at the junior-senior level.
Major in Anthropology, B.S. Degree
All the requirements for the degree are the same as those listed above for the bachelor of arts degree, except that a foreign language is not required and electives are increased by 6 hours.

Minor in Earth Sciences
The minor requires 23 hours, including GEOL 150, 155, 252, GEOG 150, 300, AST 250

Minor in Geology
The minor requires 21 hours, including 150, 155, 252, and 9 hours of electives above the freshman level.

Minor in Geography
The minor requires 21 hours, including 150, 350, and 15 hours of electives above the freshman level.

Minor in Geography-Planning
The minor requires 23 hours, including 150, 320, 350, 460, 462, 464, and 5 hours of junior-senior electives.

Minor in Anthropology
The minor requires 21 hours, including 250, 260, and 15 hours of junior-senior electives.

DEPARTMENT OF HISTORY

Curtis Wood, Head


Major in History, B.A. Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 39 hours chosen from one of the following concentrations.

United States History: HIST 221-222, 297, 498, 18 hours of upper-division U.S. history, 9 of which must be selected from HIST 431, 432, 433, 434, 435, 436, 9 hours of upper-division European and non-Western history courses, including a minimum of 3 hours of each.

European History: HIST 231-232, 297, 498, 18 hours of upper-division European history, 9 of which must be selected from HIST 411, 412, 413, 414, 416, 9 hours of upper-division U.S. and non-Western history, including a minimum of 3 hours of each.

To complete the program, a total of 42 hours is required, including a minor, second major, or other approved program and general electives. At least 21 hours of these courses must be at the junior-senior level.

Major in History, B.S. Degree

General Education, 41 hours

Program requirements, 4 hours MATH 170, 171

The major requires 39 hours chosen from one of the following concentrations.

United States History: HIST 221-222, 297, 498, 18 hours of upper-division U.S. history, 9 of which must be selected from HIST 431, 432, 433, 434, 435, 436, 9 hours of upper-division European and Non-Western history courses, including a minimum of 3 hours of each.
European History  HIST 231-232, 297, 498, 18 hours of upper-division European history, 9 of which must be selected from HIST 411, 412, 413, 414, 416, 9 hours of upper-division US and non-Western history, including a minimum of 3 hours of each.

To complete the program, a total of 42 hours is required, including a minor, second major, or other approved program and general electives. At least 21 hours of these courses must be at the junior-senior level.

Minor in History
The minor requires 21 hours, including 221-222 or 231-232 and 15 hours of junior-senior history electives.

Minor in Public History
The minor requires 21 hours, including HIST 231-232, HIST 483, PSC 304, 9 hours selected from HIST 472, 473, 475, 478.

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Joseph Klerlein, Head


Major in Computer Science, B.S Degree

General education, 41 hours

Program requirements, 20 hours  MATH 145, 146, 8 hours selected from one of the following groups  BIOL 130, 131 or CHEM 135, 136 or GEOL 150, 155, or PHYS 230, 231, 6 hours selected from two additional natural science courses.

The major requires 58 hours as follows:
150, 151 Computer Science I, II, 8 hours
250 Introduction to Computer Systems, 3 hours
251 Introduction to Computer Organization, 3 hours
310 Discrete Structures, 3 hours
351 Data Structures and Algorithm Analysis, 3 hours
352 Organization of Programming Language, 3 hours
362 Files and Data Structures, 3 hours
462 Systems Programming, 3 hours
470 Operating Systems, 3 hours
493 Topics in Computer Science, 1-6 hours, R6
MATH 153, 255 Calculus I, II, 8 hours
MATH 254 Matrix Theory, 3 hours
MATH 270 Statistical Methods I, 3 hours
Electives (9 hours) selected from CS 301, 303, 320, 361, 389, 441, 443, 451, 453, 455, 460, 463, 464, 465, 480, MATH 350

Electives must be selected to provide depth in at least two of the following six areas: theoretical foundations of computer science, algorithms, data structures, software design, concepts of programming languages, and computer architecture. Elective selection must be consistent with departmental guidelines and be approved by the departmental adviser. A partial list of possible selections is available in the department office.

General electives (9 hours) at the junior-senior level are required to complete the program.
Major in Mathematics, B.S Degree

General education, 41 hours

Program requirements, 16 hours CS 150, PHYS 230, 231, BIOL 130 or 131 or CHEM 135 or GEOL 150 or 155

The major requires 37 hours in core courses as follows
153, 255, 256 Calculus I, II, III, 12 hours
250 Introduction to Logic and Proof, 2 hours
262 Introduction to Linear Algebra, 3 hours
310 Discrete Structures, 3 hours
320 Ordinary Differential Equations, 3 hours
361 Introduction to Abstract Algebra, 3 hours
370 Statistical Theory I, 3 hours
422 Advanced Calculus I, 3 hours
479 CAPSTONE Seminar, 2 hours

Mathematics elective (3 hours) selected from 423, 461, 462, 470

To complete the program, one of the following is required
(1) 18 additional hours selected from MATH 331, 350, 375, 393, 411, 412, 423, 441, 461, 462, 470, and 16 hours of general electives, including a minimum of 13 hours at the junior-senior level, or
(2) a total of 34 hours, including a second major, minor, or other approved program and at least 12 hours of general electives. Of the total hours, 31 must be at the junior-senior level. In lieu of a second major or minor, students may choose to complete the professional-education sequence and approved electives leading to teacher certification.

Major in Mathematics, B.S Ed Degree

General education, 41 hours

Program requirements, 12 hours CS 150, and PHYS 230-231

The major requires 41 hours as follows -
153, 255, 256 Calculus I, II, III, 12 hours
250 Introduction to Logic and Proof, 2 hours
262 Introduction to Linear Algebra, 3 hours
270 Statistical Methods I, 3 hours
300 Problem Solving, 2 hours
310 Discrete Structures, 3 hours
361 Introduction to Abstract Algebra, 3 hours
411 Foundations in Geometry, 3 hours
422 Advanced Calculus I, 3 hours
479 CAPSTONE Seminar, 2 hours

Math electives (5 hours) selected from 370, 386, 412, 423, 461, 462, 470

The professional-education sequence (28 hours) for secondary and special subject teaching and 6 hours of general electives (3 hours at the junior-senior level), are required to complete the program.

Minor in Computer Science

The minor requires 20-22 hours, including CS 150, 151, 310, 351, Math 153 or 140 or 270, and 3 hours of other CS courses numbered 250 or higher

Minor in Mathematics

The minor requires 23 hours, including Math 153, 250, 255, 256, and 9 hours of electives in mathematics courses numbered 254 or higher
DEPARTMENT OF MODERN FOREIGN LANGUAGES
Suzanne Moore, Head
T Gamble, P Haberland, R Morgan, N Norris, A Perry, L Sutton, P Umfress

Majors in French, German, and Spanish, B.A Degree

General education, 41 hours It is strongly recommended that students who choose to take a foreign language to meet part of this requirement take a course in a foreign language other than their major

Each major requires 33 hours as follows
231-232 or 240 Intermediate French, German, or Spanish I and II, or Intensive French, German, or Spanish II, 6 hours
301 French, German, or Spanish Composition, 3 hours
302 Conversational French, German, or Spanish, 3 hours
321, 322 French or German, I or II, Spanish Civilization, or Latin American Civilization, 6 hours
331, 332 Survey of French, German, or Spanish Literature I, II, 6 hours
335, Introduction to French, German, or Spanish Prose and Poetry, 3 hours
351 French, German, or Spanish Phonetics and General Linguistics, 3 hours
Literature elective in the major (3 hours) selected from senior courses

To complete the program, a total of 54 hours is required, including a minimum of 18 hours of general electives, appropriate credits at the junior-senior level, and a minor, second major, or other approved program

Majors in French, German, and Spanish, B S Ed Degree

General education, 41 hours It is strongly recommended that students who choose to take a foreign language to meet part of this requirement select a course in a foreign language other than their major

Each major requires 33 hours as follows
231-232 or 240 Intermediate French, German, or Spanish I and II, or Intensive French, German or Spanish II, 6 hours
301 French, German, or Spanish Composition, 3 hours
302 Conversational French, German, or Spanish, 3 hours
321, 322 French or German, I or II, Spanish Civilization, or Latin American Civilization, 6 hours
351 French, German, or Spanish Phonetics and General Linguistics, 3 hours
451 Advanced Grammar, 3 hours
452 Advanced Conversation, 3 hours
Literature electives (6 hours) selected from FREN 331, 332, 335, GERM 331, 332, 335, SPAN 331, 332, 333, 335 in the major

The professional-education sequence (28 hours) for special subject teaching and general electives (23 hours), including at least 3 hours at the junior-senior level, and EDEL 312 are required to complete the program

Minors in French, German, and Spanish

Each minor requires 21 hours, including 231-232 or 240, 301, 302, and 9 hours of junior-senior electives

DEPARTMENT OF MUSIC
Robert Kehrberg, Head

To major in music, students must pass an applied music audition in the performance principal area and take a music aptitude examination
All music majors must demonstrate the required level of piano proficiency for graduation in their chosen curriculum or elect piano every semester until the required proficiency is attained. Each student must prepare a junior qualifying examination or recital in the principal applied area for approval of the appropriate faculty committee before a degree will be granted. All students on the B.S.Ed and B.A. Applied Emphasis degree plans must prepare a senior performance examination or recital in the principal applied area for approval of the appropriate faculty committee.

**Major in Music, B.A. Degree**

**General education, 41 hours**

**Program requirements, 6 hours** MFL 231-232 or 240

The major requires 40 hours as follows:
- 152, 153 Aural Skills Laboratory, 2 hours
- 178 Basic Musicianship, 4 hours
- 252 Aural Skills Lab, 1 hour
- 277, 278 Theory and Literature, 6 hours
- 350, 351 Music History, 6 hours
- 428 or 429 Conducting, 3 hours

Principal performing medium, a minimum of 8 hours and completion of the junior qualifying examination.

Applied music electives excluding ensembles (piano required unless it is the principal), 4 hours

**Major ensemble, 6 hours**

To complete the program, 41 hours, including a minimum of 24 hours at the junior-senior level, are required. One of the following options or concentrations must be completed:

**Concentration** Applied Emphasis, must include 477 or 425 (3 hours), 305 (1 hour), 405 (1 hour), and junior-and senior-level applied principal (8 hours), 28 elective hours to include 12 hours exclusive of music courses.

**Music Industry Option** ACCT 161, MKT 301, CIS 251, BA 133, LAW 230, MGT 300, MUS 378, 9 hours in MUS 489, 11 hours electives

**Minor, second major, or approved program, 41 hours**

Cooperative education may not exceed 6 hours.

**Majors in General and Instrumental Music, B.S.Ed Degree**

**General education, 41 hours**

The major requires 58 hours, including a 35-hour core and 23 hours in general or instrumental music as follows:
- 152, 153 Aural Skills Laboratory, 2 hours
- 168 String Class, 1 hour
- 178 Basic Musicianship, 4 hours
- 252 Aural Skills Lab, 1 hour
- 270 Brass Class, 1 hour
- 271 or 274 Woodwind Class, 1 hour
- 272 Percussion Class, 1 hour
- 277, 278 Theory and Literature, 6 hours
- 283 MIDI/Synthesis Class, 1 hour
- 350, 351 Music History, 6 hours
- 428 or 429 Conducting, 3 hours
- 470 Orchestration and Arranging, 2 hours

Major ensemble, 6 hours

Concentration selected from:

**General Music** 258, 327, 169, and 14 hours in one area selected from piano or organ or voice, including completion of the 442 level of proficiency in piano, the 446 level in organ, or the 456 level in voice. Keyboard principals also complete 158 and 3 hours in the secondary keyboard instrument. Voice principals also complete 4 hours in piano.
Instrumental Music 158, 273, 271 or 274, 326, 0-4 hours in piano or piano class, 0-5 hours in applied secondary electives, and 12 hours in the instrumental principal, including completion of the 300-level of proficiency. If the principal is a keyboard instrument, 3 hours in one secondary applied wind instrument or in percussion in lieu of piano class also are required. Band will be considered the major ensemble for keyboard principals in the instrumental curriculum.

The professional education sequence (25 hours) for secondary and special teaching, excluding EDSE (Methods), plus Music 325 and 1 hour of general electives, are required to complete the program.

Minor in Music

Precollege musical experience and formal training and permission of the head of the music department are required to enroll in the minor. The minor requires 22 hours, including 152, 153, 178, 277, 4 hours of applied music in voice or an instrument, 3 hours selected from class piano, voice, brass, woodwind, strings or percussion, and MUS 181, depending upon the student's area of applied music, 3 hours in ensemble, and 3 hours of electives.

NATURAL RESOURCES MANAGEMENT PROGRAM

Lawrence G. Kolenbrander, Program Coordinator

Peter C. Bates

Major in Natural Resources Management, B.S. Degree

General education, 41 hours

Program requirements, 11 hours CHEM 135, MATH 170, 171, MGT 300

The major requires 64 hours, including 43 hours in core courses and a 21-hour concentration.

BIOL 130 General Botany, 4 hours

BIOL 131 General Zoology, 4 hours

BIOL 232 General Ecology, 3 hours

GEOG 150 Environmental Geography, 3 hours

GEOG 305 Soils and Hydrology, 4 hours

GEOG 324 Introduction to Remote Sensing, 4 hours

GEOG 402 Conservation of Natural Resources, 3 hours

PRM 460 Management of Natural and Cultural Resources, 3 hours

NRM 340 Natural Resource Measurements, 4 hours

NRM 342 Computer Applications in NRM, 1 hour

NRM 344 Introduction to Geographic Information Systems, 3 hours

NRM 440 Integrated Resource Management, 4 hours

NRM 442 Natural Resource Policy and Administration, 3 hours

Concentration, 21 hours, selected from

Forest Resources BIOL 254, ECON 310, MGT 306, NRM 350, 352, 450

Water Resources BIOL 413, 414, 435, CHEM 136, 330, NRM 460, and 3 hours of designated junior-senior natural resources management courses

Land Use Planning GEOG 320, 350, 460, 462, 464, and 6 hours at the junior-senior level in economics, management, and geography

General electives (12 hours), including at least 1-2 hours at the junior-senior level, are required to complete the program.
ASSOCIATED AREA OF PHILOSOPHY AND RELIGION

Michael Jones, Program Coordinator
J McLachlan, D Hale

Major in Philosophy, B A Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 30 hours. Only grades of C or higher in philosophy courses will satisfy requirements for the major. The following courses are required:

- 231 Introduction to Ethics, 3 hours
- 304 Ancient Philosophy, 3 hours
- 306 Modern Philosophy, 3 hours
- 307 Nineteenth Century Philosophy, 3 hours
- 493 Seminar in Philosophy, 3 hours

Philosophy electives at the junior-senior level, 12-15 hours

A logic requirement must be satisfied by passing either the logic examination or PHIL 232, Introduction to Symbolic Logic. To complete the program, a total of 51 hours is required, including a minor, second major, or other approved program, and at least 12 hours of general electives. Twenty-four to twenty-seven hours of these courses must be at the junior-senior level.

Minor in Philosophy

The minor requires 18 hours, including 231, 232, and 12 hours of electives selected from junior-senior philosophy/religion courses, PSC 345, 346.

DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC AFFAIRS

C Don Livingston, Head
Gordon Mercer, Director of MPA
A Hayes, C Stevens, K Wink

Major in Political Science, B A Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 33 hours as follows:

- 231 American Government and Politics, 3 hours
- 302 or 303 Problems and Policies of American Government or State and Local Government, 3 hours
- 315, 316, or 318 European Political Systems, Politics of Developing Areas, or Soviet Political Systems, 3 hours
- 331 or 332 International Politics or International Organization, 3 hours (331 is required for the concentration in international relations)
- 345 or 346 Ancient and Medieval Political Thought or Modern Political Thought, 3 hours
- Electives, cooperative education, or internship in the area of the concentration, 6 hours

Concentration (12 hours) selected from:
- General Political Science Electives at the junior-senior level
- Public Administration 304, 6 hours selected from 307, 336, and 421, and 6 hours of junior-senior electives
- International Relations 6 hours selected from 332, 333, 334, 335, and 6 hours of junior-senior electives
- American Political Institutions 6 hours selected from 305, 306, 407, 409, 449, 494, and 6 hours of junior-senior electives.
To complete the program, a total of 48 hours is required, including at least 18 hours of general electives and a minor, second major, or other approved program. At least 27 hours of the courses selected must be at the junior-senior level.

**Major in Political Science, B.S. Degree**

Program requirements (4 hours) include MATH 170, 171 instead of a foreign language. The remainder of the requirements are the same as those stated above in the Bachelor of Arts degree program.

**Minor in Political Science**

The minor requires 21 hours, including 231, 315, and 15 hours of junior-senior electives.

**SOCIAL SCIENCE PROGRAMS**

*James A. Lewis, Coordinator*

**Major in Social Sciences, B.A. Degree**

General education, 41 hours

Program requirements, 6 hours: MFL 231-232 or 240

The major requires 39 hours as follows:

- HIST 221, 222 European History, 6 hours
- Two of the following four groups: ECON 231-232, GEOG 150-350, PSC 231-315, SOC 231-ANTH 260
- Advanced electives (21 hours) including at least 6 hours in each of three areas: American history, anthropology, economics, foreign history, geography, political science, sociology.

To complete the program, a total of 42 hours is required, including a minimum of 18 hours of general electives and a minor, second major, or other approved program. At least 30 hours of the courses taken must be at the junior-senior level, to meet the 40% rule (see General University Degree Requirements).

**Major in Social Sciences, B.S. Degree**

All of the requirements for the degree are the same as those listed for the Bachelor of Arts program except that MATH 170 (3 hours) and MATH 171 (1 hour lab) are required, a foreign language is not required, and electives are increased by 2 hours.

**Major in Social Sciences, B.S. Ed. Degree**

General education, 41 hours

Program requirements, 9 hours: 6 hours in a foreign language exclusive of courses taken to meet general education requirements, CMCR 250

The major requires 48 hours as follows:

- PSY 250 General Psychology, 3 hours
- GEOG 102 World Regional Geography, 3 hours
- ANTH 260 Cultural and Social Anthropology, 3 hours
- HIST 221, 222 European History, 6 hours
- HIST 231 American History to 1865, 3 hours
- HIST 232 American History since 1865, 3 hours
- PSC 231 American Government and Politics, 3 hours
- SOC 231 Principles of Sociology, 3 hours
- ECON 130 Survey of Economics, 3 hours
- Advanced electives (18 hours) in two social sciences selected so that 12 hours are taken in one discipline and 6 hours in another.
The professional education sequence (28 hours) for secondary and special subject teaching and general electives (2 hours) are required to complete the program.

DEPARTMENT OF SOCIAL WORK AND SOCIOLOGY

R. Ledford, Acting Head
A. Hickey, J. Hickey, D. Lemke, B. Luoma, P. Pearson, H. Price, H. Ramsey, B. Smith

Major in Social Work, B.S. Degree

General education, 41 hours

Program requirements, 4 hours  BIOL 134 or equivalent

The major requires 58 hours as follows:
151 Introduction to Social Work, 3 hours
251 Social Welfare Policies, Programs, and Services, 3 hours
253 Foundations of Social Work Practice, 4 hours
327 Social Work with Families, 3 hours
362, 364 Social Work Practice I, II, 8 hours
373 Social Welfare Policy Issues and Analysis, 3 hours
402 Person, Environment, Culture, 3 hours
466 Social Work Research and Evaluation, 4 hours
486, 487, 488 Field Experience, 12 hours
496 Field Seminar, 3 hours
SOC 314 or ANTH/SOC 414 Social Inequality or Minority Groups, 3 hours
CDFR 364 Survey of Human Development, 3 hours
PSC 302 or 303 or 304 Problems and Policies of American Government or State and Local Government or Public Administration, 3 hours

General electives (25 hours), including at least 3 hours at the junior-senior level, are required to complete the program.

Major in Sociology, B.A. Degree

General education, 41 hours

Program requirements, 6 hours  MFL 231-232 or 240

The major requires 33 hours as follows:
231 Principles of Sociology, 3 hours
385 Methods of Social Research, 3 hours
386 Analysis of Social Data, 3 hours
391 Sociological Theory, 3 hours

Electives (21 hours) to complete a general sociology emphasis selected from junior-senior sociology courses

To complete the program, a total of 48 hours is required, including at least 18 hours of general electives and a minor, second major, or other approved program. At least 21 hours of the courses taken must be at the junior-senior level.

Major in Sociology, B.S. Degree

All the requirements are the same as described above for the Bachelor of Arts degree, except that a foreign language is not required and electives are increased by 6 hours.

Minor in Sociology

The minor requires 21 hours, including 231 and 18 hours of junior-senior electives.
Minor in Social Change
See requirements under Arts and Sciences Interdisciplinary Programs

Minor in Race, Ethnic, and Gender Relations
See requirements under Arts and Sciences Interdisciplinary Programs

Interdisciplinary Minor in Women's Studies
The minor requires 18 hours, including ASI 230, ENGL 477, HIST 451, SOC 326, and electives from ANTH 419, NSG 360, PSY 333, and/or appropriate topics from ANTH 481, PSY 480, SOC 480, and STA 495
COLLEGE OF BUSINESS

John F McCreary, Dean

Purpose

The College of Business is committed to excellence in teaching, learning, research, and service. The college serves the educational needs of undergraduate and graduate students in accordance with the resources available to implement a relevant curriculum. Graduates are prepared to make an immediate and continuing contribution to today's business. They possess the curiosity and flexibility to learn and adapt in a changing environment.

Teaching

The college emphasizes teaching that reaches a wide range of students with differing skills and cultural backgrounds. Faculty members are sensitive to the educational needs of students and are dedicated to their academic development. Teaching, the college's most important endeavor, focuses on helping students compete in a global environment.

Research

The faculty generates creative, applied, historical, and instructional research to advance scholarship. Intellectual contributions are reviewed and utilized by peers.

Service

The college provides service to Western Carolina University and to constituencies in North Carolina, the United States of America, and other nations. Professional commitments and interactions with external organizations are encouraged.

Culture

The college is dedicated to an environment of professional and academic integrity, mutual respect, and ethical behavior. Individual freedom, equal opportunity, and responsible citizenship are enduring values. All individuals are encouraged to strive for continuous self-improvement as appropriate to their needs, talents, and stage of development.

Programs of study include Bachelor of Science in Business Administration, Bachelor of Science, Master of Business Administration, and Master of Project Management. In cooperation with the College of Education and Psychology, the Bachelor of Science in Education is offered in basic and comprehensive business education. All degree programs are provided in Cullowhee. Graduate programs are also available in Asheville.

Admission to B.S B.A. Programs

Acceptance and registration in business administration courses or the declaration of intent to complete a business major do not guarantee admission to the Bachelor of Science in Business Administration programs. A student is not officially in the college until admitted as a candidate for the degree in a major program.

A student may be admitted to a degree program after completing a minimum of 30 hours at Western Carolina University with a 2.0 GPA on hours attempted. Applicants transferring directly from another accredited institution must have a 2.0 GPA on all work attempted at the previous institution. Transfer students who complete courses at the university before applying for admission to the College of Business must have a 2.0 GPA on hours attempted. If less than 30 hours have been attempted at Western, a 2.0 GPA on hours attempted both at Western and at the other institutions is required.

Consistent with the policy on transfer of coursework, at least 30 semester hours of courses must be taken in the College of Business at Western Carolina University toward the B.S. B.A. or B.S. degree.

Application for graduation may be filed with the dean upon completion of 86 hours but must be filed no later than one month before the final semester of enrollment.

Students seeking a Bachelor of Science in Education degree with a major in business education must meet requirements of the College of Education and Psychology for admission to the professional sequence.
The Bachelor of Science in Business Administration Degree  This degree program requires the following:

- General Education 41 hours
- Foundation of Knowledge for Business 45 hours
- Major Program of Study in Business 21 hours
- Elective Courses 13 hours

Minimum requirements for B.S.B.A. Degree 120 hours

Foundation of Knowledge for Business courses are:

- ACCT 251, 252 Accounting Principles I, II, 6 hours
- BA 404 Strategic Management, 3 hours
- CIS 251 Management Information Systems, 3 hours
- ECON 231, 232 Microeconomics and Macroeconomics, 6 hours
- ECON 235 Statistics, 3 hours
- FIN 305 Financial Management, 3 hours
- LAW 230 Legal Environment of Business, 3 hours
- MATH 130 College Algebra, 3 hours
- MGT 300 Introduction to Management, 3 hours
- MGT 305 Quantitative Business Analysis, 3 hours
- MGT 306 Behavioral Science in Organizations, 3 hours
- MKT 301 Principles of Marketing, 3 hours
- OA 304 Business Communications, 3 hours

Appropriate prerequisites must be completed and at least 56 hours are required for enrollment in all courses numbered 300 or above in the College of Business.

Second Major in Business Administration  The requirements for a second major in business administration are identical with the Foundation Courses for Business previously identified. Substitutions may be made only with the approval of the dean of the College of Business.

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

C Claude Teagarden, Head

J Beegle, J C Carland, J W Carland, D Coffee, R Crepeau, J Gould, L Heinrichs, P Little, W Perry, D Smith, G Williams

Major in Accounting, B.S.B.A. Degree

- General education, 41 hours
- Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major

- 275, 352, 353 Intermediate Accounting I, II, III, 9 hours
- 355 Income Tax I, 3 hours
- 356 Cost Accounting, 3 hours
- 454 Auditing I, 3 hours
- 475 Advanced Accounting Projects, 3 hours

General electives (13 hours), including at least 9 hours at the junior-senior level

Major in Computer Information Systems, B.S.B.A. Degree

- General education, 41 hours
- Foundation of Knowledge for Business, 45 hours
The following 21 hours in the major

256 Business Computer Programming, 3 hours
258 Applications Development I, 3 hours
358 Applications Development II, 3 hours
365 Computer Architecture, Communications, and Operating Systems, 3 hours
453 Data Base Management Systems, 3 hours
455 Computer Information Systems Analysis and Design, 3 hours
465 Information Resource Management, 3 hours

General electives (13 hours), including at least 12 hours at the junior-senior level

DEPARTMENT OF BUSINESS ADMINISTRATION, LAW, AND MARKETING

Retha Kilpatrick, Head
D Burke, J Busbin, B Dunlap, R Higgs, J Hopper, J Hunter, M Leonard, J McCreary, R McLaunn, M Nixon, R Noel, C Teagarden, R Waddell, L Wilson, N Wright

Major in Business Education, B S Ed Degree

General education, 41 hours
Program requirements, 3 hours MATH 130
The major in business education, which includes a disciplinary focus area in economics, requires 57 hours as follows
ACCT 251, 252 Accounting Principles I, II, 6 hours
BA 404 Strategic Management, 3 hours
ECON 231, 232 Introductory Micro and Macroeconomics, 6 hours
ECON 235 Statistics, 3 hours
FIN 305 Financial Management, 3 hours
LAW 230 Legal Environment of Business, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 305 Quantitative Business Analysis, 3 hours
MGT 306 Behavioral Science in Organizations, 3 hours
MKT 301 Principles of Marketing, 3 hours
OA 300 Word Processing II, 3 hours
OA 304 Business Communications, 3 hours
OA 340 Information Processing Systems, 3 hours
OA 402 Administrative Management and Policy, 3 hours
Three upper-level electives in economics, 9 hours

The professional-education sequence (27 hours) for secondary and special subject teaching is required to complete the program. NOTE This program requires a minimum of 128 hours

Major in Business Administration and Law, B.S B A Degree

General education, 41 hours
Foundation of Knowledge for Business, 45 hours
The following 21 hours in the major
LAW 331, 332 Business Transactions I, II, 6 hours
LAW 415 Legal Aspects of Business Management, 3 hours
Electives (12 hours) selected from the following
Select 3 hours from the following theory courses LAW 302, 305, 405, 412, 480
Select 6 hours from the following applied courses LAW 303, 315, 320, 389, 393, 403, 410, 440, 483, 484, 485 (with no more than 3 hours total from LAW 483-484-485)

Select 3 hours from any law course (with no more than a total of 3 hours from the entire 21 hours from LAW 483-484-485)

General electives (13 hours), including at least 6 hours at the junior-senior level

**Major in Marketing, B.S B.A Degree**

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major

- 302 Marketing Communications, 3 hours
- 303 Marketing Research, 3 hours
- 304 Consumer Behavior, 3 hours
- 405 Marketing Management, 3 hours

Marketing electives (9 hours) selected from 305, 306, 401, 403, 404, 406, 407, 408, and 409

General electives (13 hours), including at least 6 hours at the junior-senior level

**Major in Office Administration, B.S B.A Degree**

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major

- 300 Word Processing II, 3 hours
- 340 Information Processing Systems, 3 hours
- 393 Topics in Office Administration or approved elective, 3 hours
- 401 Office Systems and Simulations, 3 hours
- 402 Administrative Management and Policy, 3 hours
- 403 Business Research and Reports, 3 hours
- 483 Internship or approved elective, 3 hours

General electives (13 hours), including at least 6 hours at the junior-senior level

**Minor in Business Law**

The minor, open to nonbusiness majors only, requires 18 hours, including Law 230, two theoretical upper level law courses (from Law 302, 305, 405, 412, or 415) and three applied upper level law courses (from Law 303, 315, 320, 331, 332, 403, 410, or 440)

**Minor in Marketing**

The minor, which is open to nonbusiness majors only, requires 21 hours including ECON 231, MKT 301, MKT 405 and 12 hours of marketing electives at the junior-senior level approved by the department head

*Depending on the electives selected, course prerequisites may add additional hours. Please check the catalog description for specific requirements
DEPARTMENT OF ECONOMICS AND FINANCE

William L. Boyd, Head


Major in Economics, B.S.B.A. Degree

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in one of the two following concentrations

Business Economics  302, 303, 304, and 12 hours in junior-senior economics electives approved by the adviser
Entrepreneurial Studies  LAW 331, MGT 401, MKT 403, 404, CIS 466, FIN 409, approved FIN or ECON elective

General electives (13 hours), including at least 6 hours at the junior-senior level

Major in Finance, B.S B A Degree

General education, 41 hours

Foundation of Knowledge for business, 45 hours

The following 21 hours in one of the two following concentrations

Corporate Finance  ECON 303, FIN 405, 495, ACCT 301, 9 hours electives selected from FIN 406, 407, 409, 325, 335, ACCT 275, 352, 356, ECON 302
Financial Planning  ECON 303, FIN 300, 335, 400, 406, 496, 3 hours electives selected from LAW 403, FIN 302, ACCT 355, 356, FIN 325

General electives (13 hours), including at least 6 hours at the junior-senior level

Second Major in Economics

The second major, which is open only to nonbusiness majors, requires 33 hours as follows
231 Introductory Microeconomics, 3 hours
232 Introductory Macroeconomics, 3 hours
235 Statistics, 3 hours
303 Money, Financial Markets, and Economic Policy, 3 hours
ACCT 251, 252 Accounting Principles I, II, 6 hours
MGT 300 Introduction to Management, 3 hours
LAW 230 Legal Environment of Business, 3 hours
Economics electives (9 hours) at the junior-senior level

Minor in Economics

The minor, which is open only to nonbusiness majors, requires 18 hours including 231, 232, 235, 303, and 6 hours of economics electives at the junior-senior level

Major in International Business, B.S.

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

One year (6 hours) of modern foreign language from FREN, GERM, or SPAN 231, 232, or 240
The following 24 hours in the major

- ECON 309 International Economics, 3 hours
- MGT 301 International Management, 3 hours
- Two courses chosen from the following
  - FIN 407 Multinational Business and Finance, 3 hours, LAW 320 Multinational Corporate Law, 3 hours, MKT 407 International Marketing, 3 hours, BA 304 Communication in Multicultural Environments, 3 hours, PSC 331 International Politics, 3 hours
- Electives (12 hours) selected from at least three different disciplines listed below
  - ANTH 260 Cultural and Social Anthropology, 3 hours
  - ANTH 327 Economy and Society, 3 hours
  - ECON 401 Comparative Economic Systems, 3 hours
  - ECON 406 International Economic Development, 3 hours
  - GEOG 250 Economic Geography, 3 hours
  - GEOG 440 Topics in Regional Geography Europe, 3 hours
  - GEOG 444 Political Geography, 3 hours
  - HIST 317 History of 20th Century International Relations, 3 hours
  - HIST 411 Western Imperialism, 3 hours
  - HIST 416 Europe in the Twentieth Century, 3 hours
  - MFL 321 or 322, French, German, or Spanish Civilization, 3 hours
  - PSC 315 European Political Systems, 3 hours
  - PSC 316 Politics of Developing Areas, 3 hours
  - PSC 332 International Organization, 3 hours
  - PSC 333 International Law, 3 hours
  - PSC 335 Problems in World Politics, 3 hours
  - PSC 436 Dynamics of World Order, 3 hours
  - SOC 434 Regional and Societal Development, 3 hours
- General electives (12 hours) including at least 9 hours at the junior-senior level outside the College of Business

NOTE: This program requires a minimum of 128 hours

DEPARTMENT OF MANAGEMENT

J Adams, W Kane, T Kinnear, B Little, M McCullough, G Mechling, S Owens, J Pearce, H Smith, J Wysocki

Major in Management, B.S B.A Degree

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major

- 304 Personnel Management, 3 hours
- 400 Organization Theory, 3 hours
- 402 Production and Operations Management, 3 hours
- 495 Seminar in Management, 3 hours
- Electives (9 hours) selected from 301, 302, 401, 405, 407, and MKT 405, 408

General electives (13 hours), including at least 6 hours at the junior-senior level

Minor in Management

The minor, open to non-business majors only, requires 18 hours including MGT 300, 304, 306, and nine hours of approved management electives
The College of Education and Psychology seeks to prepare professional personnel for the schools and colleges of the state and region and for other educational and service agencies. It coordinates all teacher education curricula at the university and provides services to individuals, schools, and regional educational and professional agencies. It undertakes continuous evaluation to assure curricula and professional services of high quality and coordinates the screening, selection, and counseling of students pursuing programs of study in the school.

The Bachelor of Science and Bachelor of Science in Education degrees are awarded upon completion of the undergraduate programs offered in the college. The Bachelor of Science degree is awarded in psychology, sport management, therapeutic recreation, and parks and recreation management. The Bachelor of Science in Education degree is normally awarded to those completing a teacher-education program. Students may pursue programs leading to the Bachelor of Arts or Bachelor of Science degrees simultaneously with a program in teacher education but must fulfill all requirements of an approved teacher education program.

The Teacher Education Program

Admission and retention policies in teacher-education programs are based on the standards and guidelines of the State of North Carolina and the National Council for Accreditation of Teacher Education (NCATE). Approved institutions must have established procedures for implementing decisions regarding admission to, and retention in, teacher education programs. The state and NCATE guidelines require continuous evaluation of students admitted to teacher education programs and states that those found unlikely to succeed as teachers should be withdrawn. The standards of NCATE state that prospective teachers should demonstrate those personal characteristics which will contribute to, rather than detract from, their performance in the classroom. The standards further state that the institution has the right and the obligation to consider pertinent personal factors as well as academic achievement as a basis for permitting a student to continue in a teacher-education program.

Disciplinary Focus Area

A disciplinary focus area is a 24-hour course of study in an academic discipline required of education students enrolled in a B.S. Ed. program in communication disorders, business, elementary, middle grades, physical education, or special education. The disciplinary focus areas available are the following: Anthropology, Art, Biology, Economics, English, French, Geography, Geology, German, History, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Spanish, Speech, Theatre Arts. A disciplinary focus area course of study must be completed and filed in the Dean's office.

Admission to the Teacher-Education Program

Acceptance and registration in a department do not guarantee admission to the teacher-education program in that department. A student is not officially in a teacher-education program until approved by the head of the department of the student's major and by the Teacher Education Council. The applicant's fitness for teaching in the chosen area is determined on the basis of demonstrated academic ability and other personal characteristics conducive to effective teaching. A student may be considered suitable in one area and unsuitable in another. Students with speech defects that will interfere with successful teaching may be required to take corrective therapy.

Students are eligible for admission to the teacher education program if they have (1) completed at least 35 hours of general education requirements, (2) earned a C or higher grade in ENGL 101, 102, and also in ENGL 300 if required to take this course, (3) completed at least 45 hours, (4) earned a GPA of 2.50 on hours attempted, (5) achieved the minimum score on the NTE Core Batteries I and II, and (6) completed a personal interview and received a satisfactory evaluation from the teacher education faculty. Students must be, or have been,
eligible for admission prior to earning 90 hours of credit. Applicants already holding non-teacher-education degrees must meet all of these requirements except they are not required to take Core Batteries I and II of the NTE. They must have had a GPA of 2.50 at the time of graduation.

Students should apply for admission to the teacher-education program no later than the semester in which they are enrolled in EDCI 231, a course that is prerequisite to all other courses in the professional-education sequence. Students must complete all requirements for admission to the teacher-education program by the end of the semester in which they are approved for admission by the Teacher Education Council in order to be eligible to enroll in courses in the Professional Education Sequence.

Admission to the program is competitive, and the requirements stated above are the minimum to be met in order to apply and be considered.

Students must have maintained satisfactory conduct and citizenship records which are in keeping with the ethics of the teaching profession. A student who is readmitted to the university after dismissal, suspension, or expulsion will not be readmitted to the teacher-education program the first term after returning.

Application forms are available in the dean's office. The student should process the application as indicated on the form and file it in the dean's office two weeks before early registration for the term in which admission is sought or by the date designated each term by the dean.

Continuation in the Teacher Education Program. The requirements for continuing in the program are (1) a GPA of at least 2.50 on hours attempted, (2) behavior which adheres to the code of ethics of the profession, and (3) satisfactory participation in the required professional laboratory program that is prerequisite to student teaching. An evaluation of each field experience assignment will become a part of the student's professional record.

If a student fails any course in the professional-education sequence and/or any part of the National Teacher Examination twice, the student is withdrawn from teacher education.

Course Requirements in the Program. The teacher-education program requires a professional education sequence of 9 to 28 hours in courses pertinent to teaching in specific areas and at various levels. All courses in the sequence except student teaching and the student-teaching seminar must be completed before admission to student teaching. The courses in the sequence are determined by the student's major.

Communication Disorders, 9 hours EDCI 231, PSY 320, 321
Elementary and Middle Grades, 23 hours EDCI 231, PSY 320, 321, SPED 335, EDEL 490, 495
Special Education, 21 hours EDCI 231, PSY 320, 321, SPED 490, 495
Secondary and Special Subject Teaching, 27-28 hours EDCI 231, PSY 320, 321, SPED 335, EDRD 323, *Methods, EDSE 490, 495

*Students majoring in biology, science, social sciences, take EDSE 322. Other students take the special methods course offered in their major department.

Field Experience Requirement. The teacher-education program requires field experiences in conjunction with several courses in addition to the student-teaching requirement. Students are expected to make their own arrangements for transportation and housing and absorb the costs related to field experiences and student teaching. Each program has different requirements, and students should discuss costs with the program head prior to applying for admission to the teacher-education program.

Selective Admission to Student Teaching. Students apply to the director of field experiences early in the semester prior to the semester in which student teaching is to be done. The requisites for application are (1) enrollment in the professional-education sequence for at least two semesters, (2) completion of at least 90 hours in a teacher-education curriculum, (3) one term in residence, (4) a GPA of 2.50 or above, both at the beginning of the term.
immediately preceding the student teaching term and at the time of enrollment in student
teaching, (5) completion of at least two-thirds of the major, (6) completion of all records
designated by the director of field experiences, (7) removal of conditions placed on the
student at the time of admission to the teacher-education program, (8) completion of the
applicable professional-education sequence except for student teaching and the student
teaching seminar, and (9) completion of all competency requirements in the media lab,
including computer competencies

**Continuation in Student Teaching** To continue in student teaching, students must maintain
satisfactory professional conduct and adhere to the policies and regulations of the school to
which they are assigned. When recommended by the director of field experiences and
approved by the dean, students failing to perform at a satisfactory level may be removed from
student teaching

**Requirements for Teacher Certification**

To be eligible for teacher certification, a student must (1) complete one of the approved
teacher-education programs, (2) make a minimum grade of C in student teaching, (3) receive
a public school recommendation indicating that student teaching was successful, (4)
complete applications for certification and file them with the dean of the College of Education
and Psychology, (5) receive a recommendation from the head of the department of the
grading major, (6) achieve the minimum score on the NTE Professional Knowledge and
Specialty Area Tests, (7) receive a professional recommendation for Class A certification by
the dean of the College of Education and Psychology, (8) pay the fee required by the State
Board of Education for the issuance of teacher certificates

**North Carolina Teaching Fellows**

North Carolina Teaching Fellows must complete requirements in addition to those for
regular teacher-education students

**DEPARTMENT OF ADMINISTRATION, CURRICULUM, AND
INSTRUCTION**

*Donald M. Chalker, Head*

J. Franson, D. Fredricks, R. Haynes, C. Hurley, M. Herzog, J. McFadden, F. Parker,

**Major in Secondary and Special Subject Teaching, B.S.Ed. Degree**

Degree requirements are as specified for the respective degree programs in the appropriate
departmental sections of this catalog.

The subject areas in which majors are available are

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<td>Business Science (General Sciences)</td>
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<tr>
<td>Social Sciences</td>
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</tbody>
</table>

Students seeking or holding a degree other than a Bachelor of Science in Education may be
admitted to the teacher-education program and earn teacher certification. Consult your
adviser or department head
Major in Elementary Education, B S Ed Degree

General Education, 41 hours

The major requires 40 hours as follows

- EDEL 303 Literature for Children and Youth, 3 hours
- EDEL 312 Elementary School Curriculum and Methods, 3 hours
- EDEL 315 Elementary/Middle Grades Communication Skills, 3 hours
- EDEL 316 Elementary/Middle Grades Science, 3 hours
- EDEL 317 Elementary/Middle Grades Social Studies, 3 hours
- EDEL 318 Elementary/Middle Grades Mathematics, 3 hours
- EDEL 390 Practicum in Elementary Education I, 1 hour
- EDEL 476 Discipline and Classroom Control, 2 hours
- EDRD 334 Reading Instruction in the Elementary School, 3 hours
- EDRD 474 Diagnostic Teaching of Reading, 3 hours
- PE 360 Skills in Promoting Healthful Living, 3 hours
- MATH 230 Theory of Arithmetic I, 3 hours
- MATH 231 Theory of Arithmetic II, 3 hours
- MUS 301 Basic Skills, 2 hours
- ART 363 Art for Children, 2 hours

In order to complete the program, the following are required
1. Completion of an approved disciplinary focus area, 24 hours.
2. Completion of the professional-education sequence for elementary education majors, 23 hours.

Major in Middle Grades Education, B S Ed Degree

General education, 41 hours

The major requires 18 hours in core courses as follows

- EDEL 310 Middle Grades Child and Curriculum, 3 hours
- EDEL 315 Elementary/Middle Grades Communication Skills, 3 hours
- EDEL 390 Practicum I, 1 hour
- EDEL 466 Computers in Education, 3 hours
- EDEL 476 Discipline and Classroom Control, 2 hours
- EDRD 443 Middle Grades Reading, 3 hours
- EDRD 474 Diagnostic Teaching of Reading, 3 hours

In order to complete the program, the following are required
1. The completion of an approved disciplinary focus area (24 hours).
2. Two concentrations of at least 18 hours, including the appropriate three-hour methods course, in mathematics and science or social studies and language arts. Work completed in the disciplinary focus area may be counted toward one concentration.
3. The professional education sequence (23 hours) for middle grades education and an elective (1-4 hours).

Reading (K-12) Certification Track

Certification in reading may be earned by students holding or eligible for certification in Elementary Education or Middle Grades Education. The program requires 19 semester hours including EDEL 303, EDEL 467, EDRD 334, EDRD 443, EDRD 453, and EDRD 474. Students holding or eligible for certification in other areas may also obtain certification in reading. For information contact the head of the Department of Elementary Education and Reading.
DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

David Claxton, Head.

J Benson, S Brown, J Bryant, M Creason, C Friesner, L Harmon, J Heimdal, S Hodgins, A Jacobs, E Kesgen, K LeClair, S McPherson, B Peele, S Persons, M Phipps, O Spilker, B Suhre, B Tholkes, L Travis, J Wike

Major in Physical Education, B.S.Ed Degree

General education, 41 hours

The major requires 35 hours as follows
HEAL 250 First Aid and Safety Education, 2 hours
HEAL 312 Comprehensive Health Education, 3 hours
PE 251 Dance Dynamics, 3 hours
PE 261, 262, 263 Skills Acquisition I, II, III, 3 hours
PE 311 Measurement and Evaluation, 2 hours
PE 312 Foundations of Health and Physical Education, 3 hours
PE 345 Elementary Physical Education, 3 hours
PE 335 Anatomy and Physiology, 4 hours
PE 353 Methods and Teaching Analysis of Team and Individual Sports, 3 hours
PE 423 Kinesiology, 2 hours
PE 424 Methods in Adaptive Physical Education, 2 hours
PE 405 Outdoor Leisure Pursuits, 1 hour
PE 425 Physiology of Exercise, 2 hours
PE 435 Motor Learning, 2 hours
PE 102 or passing score on Aquatic Proficiency Test, 0-1 hour

In order to complete the program, the following are required
Disciplinary Focus Area, 24 hours,

All majors are required to pass the departmental aquatic proficiency test or PE 102. All majors are encouraged to be active in intramural programs. Juniors and seniors must be in good standing as members of the Physical Education Majors Club. All majors must be active in a varsity sport or serve as an intramural assistant for at least two full years (one year for transfer students with previous varsity experience), or serve as an assistant in the Adult Fitness or Cardiac Rehabilitation program.

The professional education sequence (28 hours) for secondary and special subject teaching

Major in Health Education, B S Ed Degree

This program is on inactive status and no new students are being enrolled

Major in Therapeutic Recreation, B S Degree

General education, 41 hours

Program requirements, 10 hours COUN 430, SOC 354 or 355, BIOL 134

The major requires 62 hours as follows
TR 240 Foundations of Therapeutic Recreation, 3 hours
TR 253 Activity Skills for Special Populations, 2 hours
TR 352 Therapeutic Recreation Processes and Techniques, 3 hours
TR 385 Pre-Internship Seminar, 1 hour
TR 417 Administration of Therapeutic Recreation Services, 3 hours
TR 484 Field Experience in Therapeutic Recreation, 6 hours
TR 485 Field Experience in Therapeutic Recreation, 6 hours
PRM 250 Foundations of Parks and Recreation Management, 3 hours
PRM 270 Theories of Recreation Program Planning and Leadership, 3 hours
PRM 321 Outdoor Education, 3 hours
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<td>PRM 461</td>
<td>Management of Parks and Recreation</td>
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<td>PE 335</td>
<td>Anatomy and Physiology</td>
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<td>PE 424</td>
<td>Methods in Adaptive Physical Education</td>
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<td>Introduction to Health Professions</td>
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<td>HSCC 220</td>
<td>Medical Terminology</td>
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<td>HEAL 250</td>
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<td>Current Health Problems</td>
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<td>PSY 470</td>
<td>Abnormal Psychology</td>
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<td>SPED 405</td>
<td>Introduction to Mental Retardation</td>
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<tr>
<td>Electives (3 hours)</td>
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General electives (15 hours) are required to complete the program.

**Major in Parks and Recreation Management, B.S. Degree**

General education, 41 hours

Program requirements, 13 hours  
STA 250, MATH 170, 171, CIS 251, TR 240

The major requires 60 hours as follows

- ACCT 251 Accounting Principles I, 3 hours
- MGT 300 Introduction to Management, 3 hours
- MGT 401 Small Business Management, 3 hours
- MKT 301 Principles of Marketing, 3 hours
- ENGL 401 Writing for the Professions, 3 hours
- PRM 150 Career Opportunities in Parks and Recreation Management, 1 hour
- PRM 250 Foundations of Parks and Recreation Management, 3 hours
- PRM 255 Special Events Planning and Promotion, 3 hours
- PRM 350 Interpretation of Natural and Cultural Resources, 3 hours
- PRM 370 Internship Orientation, 1 hour
- PRM 383 Internship, 3 hours
- PRM 440 Travel and Tourism, 3 hours
- PRM 450 Elements of Parks and Recreation Planning, 3 hours
- PRM 460 or 461 or 430 Management of Natural and Cultural Resources or Community Recreation Management or Commercial Recreation, 3 hours
- PRM 480 Independent Study, 3 hours
- PRM 483 Internship, 3 hours
- PRM 495 Senior Seminar, 1 hour

Electives (15 hours) in an approved area of specialization

General electives (14 hours) are required to complete the program. The general electives and electives in the major in combination must include at least 16 hours at the junior-senior level.

Students are urged to plan programs that will lead to competency in a second area of specialization.

**Major in Sport Management, B.S. Degree**

General education, 41 hours

Program requirements, 10 hours  
BIOL 134, PE 213, STA 250

The major requires 64 hours as follows

- Core courses, 45 hours
- SM 260 Introduction to Sport Management, 2 hours
- SM 415 Legal Issues for the Sport Practitioner, 2 hours
- SM 484, 485 Internship, 12 hours
- SM 495 Sport Management Seminar, 1 hour
- PE 312 Foundations of Health and Physical Education, 3 hours
- PE 313 Psychological Aspects of Sports, 3 hours
PE 335 Anatomy and Physiology, 4 hours
CIS 251 Management Information Systems, 3 hours
ACCT 161 Accounting for Non-Business Major, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 304 Personnel Management, 3 hours
MGT 306 Behavioral Science in Organizations, 3 hours
MKT 301 Principles of Marketing, 3 hours

Concentration (19 hours) selected from
Exercise Science and Fitness Management  CHEM 132, 133, PE 423, 425, ND 330, COUN
430, and one course selected from SM 380, 383, 389
Sporting Goods Management and Sales  ACCT 251, MGT 400, MKT 302, 304, 306, LAW
230, one course selected from SM 380, 383, 389
Sports Media  RTV/JOUR 140, 301, RTV 251 or JOUR 302, RTV 250 and 354 or 355, MKT
302, and one course selected from SM 380, 383, 389
Recreational Sport Management  PRM 270, PE 330, MGT 400, TR 253, SM 315, 435, and
one course selected from PE 261, 262, 263, and one course selected from SM 380, 383,
389
Athletic Administration  PE 310, MGT 400, MKT 302, LAW 315, SM 435, one course
selected from PE 261, 262, 263, one course selected from PE 410, 411, 418, and one course
selected from SM 380, 383, 389
Professional Sport Management  MGT 302, MKT 304, 306, 405, LAW 315, SM 435, and
one course selected from SM 380, 383, 389
Event and Facility Management and Marketing  MGT 302, MKT 304, 306, PE 330, PRM
450, SM 435, and one course selected from SM 380, 383, 389
Athletic Training  HSCC 240, 370, ND 330, PE 413, 423, 425, and four hours selected from
SM 380, 383, 389

General electives (13 hours), including appropriate credits at the junior-senior level, are
required to complete the program

Minor in Coaching
The minor requires 20 hours, including HEAL 250, PE 213, 313, 335, SM 415, and two
courses selected from PE 410, 411, 418  The minor is not open to physical education majors

Minor in Physical Education
The minor requires 20 hours, including HEAL 250, PE 312, 325, 345, 353, 435, SM 415, and
choice of two from PE 261, 262, 263

Minor in Therapeutic Recreation
The minor requires 21 hours including TR 240, 352, 417, PRM 250, 321, PE 320, and 3 hours
of guided electives

Minor in Health Education
The minor requires 19 hours, including HEAL 230, 305, 311, 312, 410, ND 330, PE 320

DEPARTMENT OF HUMAN SERVICES
A  Michael Dougherty, Head

E  Bacon, L  Bloom, D  Bowman, D  Brotherton, D  Carpenter, M  Deck, M  Fischer,
L  Grantham, J  Kirk, J  Morrow, B  Ogletree, H  Ponder, Y  Saddler, D  Shapiro, G  Stillion
Major in Special Education, General, B.S.Ed Degree

Students who complete this major are eligible for North Carolina certification in learning disabilities and mental retardation.

General education, 41 hours

Special education major, 36 hours as follows:

- 240 The Exceptional Child, 3 hours
- 310 Evaluation of the Exceptional Child, 3 hours
- 312 Teaching Children with Learning Problems K-6, 3 hours
- 401 Introduction to Learning Disabilities, 3 hours
- 405 Introduction to Mental Retardation, 3 hours
- 413 Teaching Adolescents with Learning Problems, 3 hours
- 417 Managing Classrooms for Exceptional Children, 3 hours
- 450 Individual Educational Plans for Students with Disabilities, 3 hours
- 486 Practicum in Mental Retardation, 1 hour
- 487 Practicum in Learning Disabilities, 2 hours
- EDEL 318 Elementary/Middle Grades Mathematics, 3 hours
- EDRD 474 Diagnostic Teaching of Reading, 3 hours
- Guided electives, 3 hours

The professional education sequence (21 hours), a disciplinary focus area (24 hours), and 6 general elective hours are required to complete the program.

Major in Learning Disabilities, B.S.Ed Degree

This program is on inactive status and no new students are being enrolled.

Major in Mental Retardation, B.S.Ed Degree

This program is on inactive status and no new students are being enrolled.

Major in Communication Disorders, B.S.Ed Degree

This is a preprofessional program. Licensure and certification by the State of North Carolina and the American Speech-Language-Hearing Association require successful completion of a master's degree.

General education, 41 hours

The major requires 37 hours as follows:
- SPED 240 The Exceptional Child, 3 hours
- EDCD 270 Introduction to Communication Disorders, 3 hours
- EDCD 301 Speech and Language Development, 3 hours
- EDCD 320 The Clinical Process, 3 hours
- EDCD 370 Phonetics, 3 hours
- EDCD 371 Articulation Disorders, 3 hours
- EDCD 372 Speech Science, 3 hours
- EDCD 450 Introduction to Audiology, 3 hours
- EDCD 471 Anatomy and Physiology of the Speech Mechanism, 3 hours
- EDCD 476 Language Disorders in Children, 3 hours
- EDCD 474 Voice Disorders, 3 hours, or
- EDCD 478 Fluency Disorders, 3 hours
- EDCD 485 Clinical Practicum, 1 hour
- EDCD 495 Seminar in School Practice, 3 hours

Disciplinary focus area, 24 hours

The professional education sequence requires EDCI 231, PSY 320, and PSY 321, 9 hours.
General electives include 17 hours and provide for the selection of a supervised school-based clinical internship through enrollment in EDCD 490, 6 hours.

Minor in Special Education

The minor in special education requires 18 hours, including SPED 240, 310, 401, 405, and 6 hours of guided electives.

DEPARTMENT OF PSYCHOLOGY

Mildred K. Randolph, Head


Major in Psychology, B.S. Degree

General education, 41 hours

The major requires 39 hours as follows

250 General Psychology, 3 hours
251, 252 Research Methods I, II, 6 hours
495 Senior Seminar in Psychology, 3 hours

Psychology Electives

Developmental, 3 hours selected from 324, 325
Social, 3 hours selected from 310, 313, 412
Experimental, 3 hours selected from 343, 440, 444, 445
Clinical, 3 hours selected from 363, 430, 441, 470, 474
Others, 15 hours excluding 101, 105, 320, 321

To complete the program, a total of 48 hours is required, including at least 12 hours of general electives, appropriate credits at the junior-senior level, and either (1) a second major, minor, or other approved program or (2) a 21-hour concentration selected from

Cognitive Psychology 9-12 hours selected from 310, 343, 440, 444, 480, 9-12 hours selected from EDCD 301, 370, 450, ENGL 415, STA 316, STA 410, PHIL 340, PHIL 341, CS 443, CS 480 (the last 4 courses have prerequisites)

Applied/Developmental Psychology 21 hours selected from 312, 324, 325, 327, 333, 360, 363, 412, 426, 441, 460, 474, 482

Minor in Gerontology

The minor requires 24 hours, including PSY 260, CDFR 364 or PSY 325, PSY 252 or SOC 385 or NSG 470, at least one course from the Biological Perspective—ND 330, NSG 393, PE 335, at least one course from the Social-Psychological Perspective—CDFR 469, PSY 327, PSY 426, SOC 494, at least one course from the Interventions Perspective—EMC 430, NSG 405, SOCW 329, TR 253, TR 360, and one applications course: CDFR 483, 484, 485, NSG 480, PSY 482, 483, 484, 485, SOC 483, 484, 485, SOCW 483, 484, 485

Minor in Life Span Development

The minor requires 24 hours, including PSY 324, 325, 3-6 hours selected from PSY 327, 393, 6-9 hours selected from PSY 331, 333, 426, 470, 474, CDFR 261, 469, COUN 450, and 3-6 hours in PSY 482, 483, or approved courses named above

Minor in Psychology

The minor requires 24 hours including 250, 251 (or equivalent), 252 (or equivalent), and 15 hours of approved psychology electives.
The Graduate School at Western Carolina University awarded its first graduate degrees in 1952. Since that time, it has continuously broadened its offerings. Programs offered by the Graduate School lead to nine master’s degrees with more than 50 options in the different professional and academic areas, and to the Education Specialist degree in school administration, supervision, curriculum and instruction, elementary education, and middle grades. The Certificate of Advanced Study in School Counseling is also offered.

**Master of Arts**
- Majors in American History, Art Education, English, Music, Psychology, (Clinical, General, and School), and Studio Art

**Master of Science**
- Majors in Applied Mathematics, Biology, Chemistry, Communication Disorders, Home Economics, Human Resource Development, and Technology

**Master of Arts in Education.**
- Majors in Educational Administration (public school and two-year college), Counseling (school and community), Elementary Education, Middle Grades Education, Reading (public school and two-year college), Special Education (general with concentrations in behavioral disorders, learning disabilities, and mental retardation), Educational Supervision (elementary education, middle grades, subject specialties, curriculum and instruction, and instructional technology specialist-computers), and in Secondary Education and/or Two-Year College Teaching with majors in biology, business, chemistry, English, home economics, mathematics, physical education, and social sciences

**Master of Business Administration**

**Master of Health Sciences**

**Master of Industrial Education**
- Industrial Education with options for secondary and two-year college teaching

**Master of Music Education**

**Master of Project Management**

**Master of Public Affairs**

**Education Specialist.**
- School Administration, Elementary Education, Middle Grades Education, Supervision, and Curriculum and Instruction with specialties for elementary and secondary school and two-year college personnel

**Certificate of Advanced Study**
- School Counseling

**Admission and Program Requirements**

Admission to the Graduate School requires a bachelor’s degree from a regionally accredited college or university with an undergraduate background appropriate for graduate study in the proposed field and a minimum GPA of 2.75 in the last two years of the undergraduate program. Departments may have a higher required GPA. Departments also require some form of standardized test such as GMAT, GRE, or MAT. Please consult the Issue of The Record (catalog) for specific requirements for each program. Prospective students are encouraged to talk to the head of the department of the intended program concerning their eligibility to be admitted as a graduate student. Many programs require three letters of reference from former instructors or employers who are in a position to judge the applicant’s aptitude for graduate study. These forms are available from the Graduate School. Formal

*Complete information will be found in the Graduate Catalog Issue of *The Record* which is available from the office of the dean.*
application and all credentials should be submitted to the Graduate School not later than six weeks prior to the opening of the term in which the student expects to enroll.

Some graduate programs require a thesis. These are M A in American History (excluding public history and American studies options), M A in English, M A in Psychology (all programs), M S in Biology, M S in Chemistry, and the Master of Health Sciences. A thesis or approved research topic is required for the M A in Art Education. A thesis-exhibition is required for the M A in Studio Art. A thesis or lecture/recital is required for the M A in Music. A thesis may be accepted for degree programs leading to the Master of Arts in Education, the Master of Industrial Education, the Master of Music Education, the Master of Science in Applied Mathematics, the Master of Science in Communication Disorders, the Master of Science in Home Economics, and the Certificate of Advanced Study in School Counseling.

A reading knowledge of a foreign language is required for the following programs: M A in American History, M A in English, and the M S in Biology. Other degree programs do not require proficiency in a foreign language.

All degrees may be completed with a minimum of 30 to 61 semester hours of graduate study. However, applicants may be required to take additional coursework to strengthen their academic background.
COURSE DESCRIPTIONS

All courses offered by the university are listed below. For the full description of graduate courses, refer to the graduate catalog. If the entry for an undergraduate course does not carry the full description, refer to the listing for the field of study designated by the parenthetical course prefix and number.

Numbering System Each course is identified by means of a course prefix and a three-digit number. The first digit of the number designates the level of the course and indicates the minimum class rank a student should have achieved to enroll in the course.

- 01-99 Noncredit courses which are not applicable to degrees
- 100-199 Courses for Freshmen
- 200-299 Courses for Sophomores
- 300-399 Courses for Juniors
- 400-499 Courses for Seniors
- 500 and above Courses for Graduate Students only
- 700-799 Specialist degree and post-master’s degree courses

Students should not enroll in courses numbered above their class rank without the permission of the department offering the course. Undergraduate students may not enroll in graduate-level courses for either undergraduate or graduate credit except under the conditions specified in the graduate catalog. In such cases, the student must meet graduate-level requirements to receive credit.

All courses approved for general education at the freshman and sophomore levels are numbered in the ranges 101-129 and 201-229. The category of general education to which each course applies may be found on pages 56-59. The applicable category also is indicated by the parenthetical code at the end of each course description:

- F1 Written Communication
- F2 Mathematics
- F3 Oral Communications
- F4 Computer Literacy
- F5 Leisure and Fitness
- P1a Human Behavior
- P1b Contemporary Institutions
- P2 Physical and Biological Sciences
- P3a Humanities
- P3b Fine/Performing Arts
- P4 Comparative Cultures
- P5 The Human Past

The number 389 is reserved for cooperative-education courses.

Within the sequences 480-499, 580-599, 680-699, and 780-799, the second and third digits of the numbers are assigned to special types of courses:

- 80-82 Independent study and directed-readings courses
- 83-89 Internships, practica, and special applied field projects
- 90-92 Student teaching
- 93-94 Special topics courses
- 95-98 Seminars
- 699 Thesis

Course Prefixes The prefixes used to designate courses, except in the case of very short names such as Art, are abbreviations of the names of departments or of fields of study within the departments.

Credits and Class Meetings Unless otherwise indicated at the end of the course description, the number of hours a class meets each week is the same as the credit-hour value of the course. The credit hour value of each course is indicated in parentheses immediately following its title. For example, if 3 hours of credit may be earned the credit is indicated as follows: (3)

In variable credit courses, the minimum and maximum hours are shown as follows: (1-3)

Unless repeat credit is specified in the course description, a course may be applied only once toward the hours required for graduation. The availability of a course for repeat credit and the maximum hours that may be earned are indicated within the parentheses and immediately
following the credit hour value of the course as follows (3, R6). In this example, the course carries 3 hours of credit and may be repeated once for a total maximum of 6 hours applicable toward a degree.

**Prerequisites and Corequisites** A prerequisite (PREQ) is any special requirement, usually one or more background courses or requirements other than class rank, that must be met before enrolling in a course specifying the prerequisite. A corequisite (COREQ) is any course which must be taken during the same term as the course that specifies the corequisite.

**Experiential Courses** The maximum credit in experiential courses that may be applied toward a degree within the minimum 128 hours required in all bachelor's programs is 26 semester hours (20 percent). The maximum credit that may be earned in cooperative education or applied field project courses/internships or in any combination of the two is 15 hours.

Credit is awarded in experiential courses on the basis of a minimum of three contact hours per credit hour.

**Cooperative Education Courses** Students participating in a cooperative education work term are registered for a 389 course in the major department, or the department most closely related to the work experience. To be eligible, a student must be at least a sophomore and have a GPA of 2.00 or above. Exceptions must be approved by the departmental Co-op/Placement Adviser. A full statement of the requirements for academic credit is available from the cooperative education office in the Career and Academic Planning (CAP) Center. Academic assignments and work performance are used to evaluate the student on an S/U basis.
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Accounting (ACCT)

161 Accounting for the Non-Business Major (3)
The basic accounting cycle, financial statements, uses of accounting in business and non-business organizations. Not open to students seeking the B S B A degree.

251 Accounting Principles I—Financial (3)
Proprietary-based treatment of the accounting cycle, financial statements, merchandising, cash, receivables, payables, inventories, plant property and equipment, payroll, accepted accounting principles and partnerships.

252 Accounting Principles II—Managerial (3)
Corporations, investments, consolidated statements, tax impact on decisions, statement analysis, changes in financial position, responsibility accounting, manufacturing, cost-process job order, standard. PREQ 251

275 Intermediate Accounting I (3)
Accounting theory in financial statements, valuation and present value concepts, current assets. PREQ 252

293 Topics in Accounting (1-3, R3)

301 Financial Statement Analysis (3)
Short-term liquidity, cash flow from operations, funds flow, capital structure, long-term solvency, return on investment, asset utilization, and operating performance. PREQ 252

352 Intermediate Accounting II (3)
Theory applied to current and long-term liabilities, plant property and equipment, intangible assets, and stockholders equity. PREQ 275

353 Intermediate Accounting III (3)
Theory in revenue recognition, error analysis, tax allocation, pensions, leases, price-level reporting, statement of cash flows, consolidations, and topics of current interest. PREQ 352

355 Income Tax I (3)
Federal tax on individual incomes, capital gains and losses, income averaging, amendments, deductions, exemptions, withholdings, income concepts, depreciation.

356 Cost Accounting I (3)
Budgeting, systems design, responsibility accounting and motivation, standard costing, variance analysis, cost behavior patterns, relevant costs, contribution analysis, and income effects of costing alternatives. PREQ 252

361 Not-For-Profit Accounting (3)
Accounting principles as applied to governmental agencies and other nonprofit organizations. PREQ 252

389 Cooperative Education in Accounting (1 or 3, R15) See Cooperative Education Program

454 Auditing I, II (3, 3)
Theory, practice, and procedures in independent audits, standards, professional ethics, and internal control. PREQ 453

465 CPA Problems (3)

466 Income Tax II (3)

467 Cost Accounting II (3)
475 Advanced Accounting Projects (3)
The strategic use of accounting in the business environment, integration of accounting concepts, principles and theory, application of accounting skills in practice  PREQ 353  
COREQ 454

480 Independent Research in Accounting (3)
PREQ  Accounting major, permission of department head

483 Accounting Internship (3, 3, 3)
484 Supervised work or research experience in applications of accounting theory  S/U
485 grading  PREQ  Junior standing, 2.0 GPA, formal application, and permission of department head  Minimum of 10 hours per week

493 Topics in Accounting (1-3, R6)
PREQ  Permission of department head

Graduate Courses
601 Financial Analysis (3)  662 Taxation and Business (3)
651 Managerial Accounting (3)  682 Research Project in Accounting (3, R6)
661 Advanced Theory (3)  693 Topics in Accounting (1-3, R6)

Anthropology (ANTH)

110 Origins of Civilization (3)
The development of civilizations in major world areas from the earliest beginnings to the present  (P5)

120 Comparative Cultural Systems (3)
Analysis and comparison of the major features of diverse human cultures  (P4)

250 Archeology and Bioanthropology (3)
Evolutionary theory, human genetics, primatology, fossil humans, and early civilizations

260 Cultural and Social Anthropology (3)
Survey and comparison of social, political, economic, religious, and artistic achievements to provide understanding of cultural diversity

327 Economy and Society (3)
Types of economic systems examined and compared, emphasis on preindustrial and industrializing societies  PREQ 260

341 History of Anthropological Theory (3)
Concepts, theories, and schools of thought in historical context, contributions to contemporary anthropology  PREQ 250, 260

349 Applied Anthropology (3)
Examination of problems and solutions in programs of directed social and cultural change, case studies  PREQ 260

351 Cultural Ecology (3)
Relationships between physical environment and culture, nonphysiological means of environmental adaptation  PREQ 250, 260, or SOC 231

361 World Prehistory (3)
Survey of cultural developments in society from the dawn of man to the advent of modern civilization

365 Religion, Magic, Myth (3)
Nonliterate religious tradition and ritual behavior, life-crisis rituals, secret societies, magic and witchcraft, notions of divinity  PREQ 260
379 (ART 379) Cherokee Arts and Crafts (3)
Present-day Cherokee skills of woodcarving, basketry, pottery making, and other arts and crafts taught by native craftsmen, historical development in relation to other aspects of Cherokee culture and society  1 Lecture, 5 Lab

380 (SOC 380) Ethnographic Research Methods (3)
Theory and method, techniques of observation, description, interviewing, notetaking, and analyzing data, planning and completing a field study  PREQ  260 or SOC 231

389 Cooperative Education in Anthropology (1 or 3, R15) See Cooperative Education Program

414 (SOC 414) Minority Groups (3)

417 Southern Appalachian Culture (3)
Stability and change in the sociocultural institutions of the region  PREQ  260 or SOC 231

419 Comparative Family (3)
The family as a social institution in various cultures  PREQ  260 or SOC 231

431 North American Prehistory (3)
Cultural history of the peoples of prehistoric North America, including Mexico  PREQ 250

440 Archeological Field Techniques (3)
Basics of field work, surveying, photography, excavation, recording, and preservation techniques  PREQ  Permission of instructor

441 Archeological Problems and Analyses (3)
Experience in collecting and analyzing relevant archeological data  PREQ  Permission of instructor

461 Indians of North America (3)
Traditional and changing life styles of native North Americans, environmental adaptations, social organizations, religions, and arts  PREQ 260

464 Cultures of South Asia (3)
The cultures of India, Pakistan, Ceylon, Nepal, Afghanistan, and other South Asian countries  PREQ 260

466 Folklore (3)
Major forms, theories, and functions of lore among the world's cultures, collection, classification, and analysis of folklore  PREQ 260 or permission of instructor

473 Contemporary Cherokee Culture and Society (3)
Present-day Cherokee culture and society, effects of tourism and the reservation system on life styles  PREQ 260

477 Cultures of Subsaharan Africa (3)
Cultural diversity and development in Subsaharan Africa from earliest times to the present.

481 Independent Study in Anthropology (1-2, R6)
PREQ  Written application, approval of instructor and adviser

483 Anthropology Internship (3, 3, 3)

484 Application of academic training in an approved agency under faculty supervision

485 Credit toward anthropology major or minor limited to 3 hours  S/U grading  9 hours per week per course

493 Topics in Anthropology (3, R6)
PREQ  Permission of instructor
Graduate Courses
514 (SOC 514) Minority Groups (3)
517 Southern Appalachian Culture (3)
519 Comparative Family (3)
531 North American Prehistory (3)
540 Archeological Field Techniques (3)
541 Archeological Problems and Analyses (3)
561 Indians of North America (3)
565 Cultures of South Asia (3)
566 Folklore (3)
573 Contemporary Cherokee Culture and Society (3)
577 Cultures of Subsaharan Africa (3)
581 Independent Study in Anthropology (1-2, R6)
593 Topics in Anthropology (3, R6)

Art (ART)

102 Non-Western Art (3)
Style, symbolic expression, and attitudes toward mankind's relationship to nature in North America, Africa, and the South Pacific (P4)

103 Art in Society (3)
Examination of recurring visual forms in historic context as expressions of cultural values and aspirations (P5)

104 (308) Introduction to the Visual Arts (3)
Introduction to the visual arts through an analysis of artists and their works, methods of visual expression, and examination of critical thinking as applied to visual form and content (P3b)

120 Beginning Drawing and Sketching (1)
Experiments with a variety of drawing materials to familiarize the nonmajor with various approaches 2 Lab (F5)

121 Beginning Painting (1)
Development of a composition, sketching the subject, mixing colors, and applying paint, for nonmajors 2 Lab (F5)

123 Off-Loom Fiber Works (1)
Weaving on frame or hoop warps, fiber constructions, creative stitchery and quilting, for nonmajors 2 Lab (F5)

124 Beginning Ceramics (1)
Introduction to clay forming, firing and glazing techniques for nonmajors 2 Studio (F5)

125 Introduction to Calligraphy (1)
Basic calligraphy for nonmajors as appreciation of letter forms in visual elements 2 Studio (F5)

131 Introductory Drawing (3)
The investigation of both traditional and nontraditional methods of drawing with emphasis on the nature of drawing as a way of seeing and organizing ideas and perceptions 6 Studio

132 Two-Dimensional Design (3)
Foundation course with an emphasis on traditional two-dimensional techniques Emphasis is placed on use of materials and tools, problem solving, aesthetic theory, and criticism 6 Studio

136 Art History Survey I (3)
Ancient, Medieval, and Non-European Art

137 Art History Survey II (3)
Western Art, Renaissance through Modern

141 Figure Drawing (3, R6)
Analytical and compositional life drawing based on the human form using varied media, study of anatomy, master drawings and the use of the figure for purposes of design and expression PREQ 131 6 Studio
142 Three-Dimensional Design (3)  
Traditional and nontraditional studio techniques, tools, and media. Emphasis is placed on problem solving through studio activity and relating art theory and criticism to the studio. 6 Studio

233 Introductory Painting (3)  
Emphasis on color theory and the materials and techniques of painting. Historical concerns are integral parts of directed and individual investigations. PREQ 131, 132 or permission of instructor. 6 Studio

234 Introductory Printmaking (3)  
Materials and methods of various printmaking techniques as they relate to historical and contemporary issues. PREQ 131, 132 or permission of instructor. 6 Studio

241 Introductory Sculpture (3)  
Principles and processes of sculpture, supported by critical thinking, class critique, historical and contemporary references. 6 Studio

251 Introductory Ceramics (3)  
Basic principles of ceramics, technical, critical, and historical. 6 Studio

263 Introduction to Art Education (1)  
Introduction to current art education topics and approaches for teaching art in the traditional and non-traditional settings. 2 Studio. Spring only

270 Communication Design (3)  
Principles of visual communications including structure, typography, color and semantics. Emphasis on developing an understanding of the scope of graphic design including theory, practice, and technology. PREQ 132. 6 Studio

306 Renaissance Art (3)  
The Renaissance in Italy and northern Europe, major trends and personalities in art and architecture. PREQ 137 or permission of instructor.

309 Seventeenth and Eighteenth Century Art (3)  
Major baroque and rococo artists, architects, landscape and urban designers in Europe. PREQ 137 or permission of instructor.

312 Nineteenth Century Painting (3)  
Major figures and styles in European Painting. PREQ 137 or permission of instructor.

314 American Painting (3)  
From colonial lumners to contemporary art. PREQ 137 or permission of instructor.

316 Development of Modern Art Painting, Sculpture, and Architecture (3)  
From Manet, Rodin, and Richardson to Post-Modernism in painting, sculpture, and architecture. PREQ 137 or permission of instructor.

317 Origins of Modern Sculpture (3)  
Academic sculpture in the 19th century, modernist innovations from Rodin to David Smith. PREQ 137 or permission of instructor.

319 History of Design (3)  
Survey of the development of graphic design pre-history through contemporary visual communications, topics include the interrelated areas of typography, photography, and illustration as well as current conceptual and art history issues. PREQ. Permission of instructor.

330 Intermediate Drawing (3, R6)  
The history and functions of drawing, drawing as a method of developing ideas and as an end itself, relationship to other media. PREQ 141. 6 Studio.
333 Intermediate Painting (3, R6)
Materials, techniques and aesthetic issues of painting in contemporary and abstract modes with focus on personal interpretation and perception  
PREQ 233 6 Studio

334 Intermediate Printmaking (3, R6)
Exploration of various printmaking techniques with focus on personal interpretation and perception  
PREQ 234 6 Studio

342 Intermediate Sculpture (3, R6)
Materials, techniques, and aesthetic issues of sculpture in contemporary and abstract modes with focus on personal interpretation and perception  
PREQ 241 6 Studio

350 Fibers (3, R6)
Exploration of weaving techniques and structural forms in fibers combined with the history of weaving and the critical evaluation of projects  
6 Studio

351 Intermediate Ceramics (3, R6)
Study of ceramics within a historical and contemporary context, emphasis on clay-forming techniques combined with class discussion and criticism  
PREQ 251 6 Studio

352 Jewelry and Metalsmithing (3, R6)
Basic principles of jewelry and metalsmithing, technical, critical, and historical  
6 Studio

354 Glass (2, R6)
Basic techniques of glassblowing and flat glass  Conceptual, technical, critical, and historical issues will be emphasized  
6 Studio  
PREQ Permission of instructor

363 Art for Children (2)
Fundamentals for designing and implementing lessons to teach art to children in all educational settings  Teaching diverse multicultural populations discussed  
4 Studio

367 History and Philosophy of Art Education (3)
A study of art education as influenced by educational, philosophical and socioanthropological developments throughout history  
PREQ 263, 363 Spring only

370 Graphic Design Studio Procedures (3)
Equipment, materials, and procedures of the professional graphic design studio  Focus on creative expression and critical thinking through photomechanical and production techniques of the graphic arts industry  
PREQ 270 6 Studio

371 Intermediate Graphic Design (3)
Study of typography's interface with drawing and photography through an emphasis on contemporary modes of visual communication  Readings, research, and discussions related to critical thinking and aesthetic theory  
PREQ 270, 271, 370, or permission of instructor  6 Studio

372 Introductory Photography (3)
Camera operation, film processing, and darkroom printing combined with classroom critiques, emphasis on historical and current trends of black and white photography  
6 Studio

373 Introductory Illustration (3)
Focus on the development of concepts through methods of visual expression as a means of communicating ideas, problem-solving approaches with an emphasis on drawing, painting, color, and other modes of illustration  
PREQ 131 6 Studio

374 Typography (3)
Comprehensive lettering, structural arrangements, typography, and scale, phototype-setting, computer-generated type, and other procedures in type compositions, emphasis on typography in communication by combining theoretical studies with applied problems  
6 Studio
379 (ANTH 379) Cherokee Arts and Crafts (3)

389 Cooperative Education in Art (1 or 3, R15) See Cooperative Education Program

416 Contemporary Art (3)
Contemporary directions in the visual arts since 1945, emphasis on trends during the past five years · PREQ 137 or permission of instructor

433 Advanced Painting (3, R6)
Emphasis on the exploration of abstract or figurative modes of painting and critical thinking within a contemporary context · PREQ 333 · 6 Studio

434 Advanced Printmaking (3, R6)
Study of selected printing media through independent, self-directed projects under faculty supervision · PREQ 334 · 6 Studio

440 Advanced Drawing (3, R6)
Perceptual and conceptual drawing design problems, emphasis on a drawing project augmented by discussion, readings, and critique · PREQ 330 · 6 Studio

443 Advanced Sculpture (3, R6)
Emphasis on exploration of sculptural materials and critical thinking within a contemporary context · PREQ 342 · 6 Studio

451 Advanced Ceramics (3, R6)
Emphasis on personal direction, critiques of current work, reading in history and criticism · PREQ 351 · 6 Studio

458 Hand Papermaking (3, R6)
Dyeing, painting, molding, casting, forming, and other techniques for handmade paper

460 Computer Graphics Practicum (3, R6)
Production and experimentation with computer-generated imagery and investigation of software programs · 6 Studio

463 Art Education Planning, Materials and Methods (3)
Curriculum planning and an exploration of suitable art media and methods for teaching art to diverse populations · PREQ 263, 363 · 6 Studio

470 Package Design (3)
Fundamentals of package design and construction through the use of materials, methods, and graphic procedures, emphasis on problem solving through experimentation, investigation, and critical interpretation of two- and three-dimensional forms · PREQ 370 or permission of instructor · 6 Studio

471 Advanced Graphic Design (3)
Emphasis on personal exploration of materials and methods related to visual communications · PREQ 371 · 6 Studio

472 Intermediate Photography (3, R6)
Emphasis on personal direction and advanced technical problems · PREQ 372 or permission of instructor · 6 Studio

473 Intermediate Illustration (3, R6)
Emphasis on personal interpretation and advanced technical solutions to guided projects · PREQ 141, 373 · 6 Studio

474 Portfolio (3)
A portfolio of creative work formulated and executed by the student with instructor supervision, required of all students concentrating in graphic design, available to all studio majors · PREQ Permission of instructor · 6 Studio
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
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<tr>
<td>476</td>
<td>Advanced Photography (3, R6)</td>
<td>Emphasis on personal interpretation and advanced technical solutions to guided projects</td>
<td>PREQ 472 or permission of instructor 6 Studio</td>
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<tr>
<td>480</td>
<td>Experimental Studio (3, R6)</td>
<td>Theoretical and conceptual issues and modes of making art relevant to the contemporary or post-studio artist</td>
<td>PREQ Permission of instructor 6 Studio</td>
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<td>482</td>
<td>Independent Study in Art History (1-6, R6)</td>
<td>Submitted proposal must be approved by instructor</td>
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<td>483</td>
<td>Art Internship (3, 3, 3)</td>
<td>Directed work experience in a professional design studio</td>
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<td>484</td>
<td>Art Internship (3, 3, 3)</td>
<td>Directed work experience in a professional design studio</td>
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<td>486</td>
<td>Exhibition Practicum (3)</td>
<td>Organizational, administrative, and operational structures of an art gallery and museum, including the introduction of planning, curating, and installing professional art exhibitions</td>
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<td>493</td>
<td>Topics in Art (1-4, R12)</td>
<td>Permission of instructor</td>
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<tr>
<td>494</td>
<td>Art Honors Studio (3, R6)</td>
<td>Honors studio for seniors culminating in exhibition of a body of work demonstrating commitment to quality and productivity</td>
<td>PREQ Permission of instructor 6 Studio</td>
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<tr>
<td>495</td>
<td>Art History Seminar (3, R6)</td>
<td>Detailed study of a topic in art history or criticism</td>
<td>PREQ Permission of instructor, senior standing</td>
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**Graduate Courses**

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<th>Course Title</th>
<th>Description</th>
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<tr>
<td>531</td>
<td>Drawing Problems (3, R6)</td>
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<td>633 Graduate Painting (3, R9)</td>
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<tr>
<td>532</td>
<td>Design Problems (3, R6)</td>
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<td>634 Graduate Printmaking (3, R9)</td>
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<td>533</td>
<td>Painting Problems (3, R6)</td>
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<td>644 Graduate Sculpture (3, R9)</td>
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<td>534</td>
<td>Printmaking Problems (3, R6)</td>
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<td>651 Graduate Ceramics (3, R9)</td>
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<td>544</td>
<td>Sculpture Problems (3, R6)</td>
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<td>652 Graduate Jewelry (3, R9)</td>
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<td>Ceramics Problems (3, R6)</td>
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<td>653 Graduate Weaving (3, R9)</td>
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<td>553</td>
<td>Weaving Problems (3, R6)</td>
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<td>654 Graduate Glass (3, R9)</td>
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<td>564</td>
<td>Art Education Problems (3, R6)</td>
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<td>666 Photography Problems (3, R6)</td>
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<td>582</td>
<td>Independent Study in Art History (1-6)</td>
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<td>667 Graduate Photography (3, R9)</td>
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<td>586</td>
<td>Exhibition Practicum (3)</td>
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<td>680 Independent Study in Art Education (3, R6)</td>
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<td>593</td>
<td>Topics in Art (1-4, R7)</td>
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<td>681 Graduate Problems in Art (3)</td>
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<td>596</td>
<td>Art History Seminar (3)</td>
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<td>682 Independent Study in Art History (1-6)</td>
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<td>597</td>
<td>Seminar in Contemporary Art (3)</td>
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<td>696 Graduate Seminar in Art History (3, R6)</td>
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<tr>
<td>631</td>
<td>Graduate Drawing (3, R9)</td>
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<td>697 Seminar in Art Education (3, R6)</td>
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<td>632</td>
<td>Graduate Design (3, R9)</td>
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<td>699 Thesis (3)</td>
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**Arts and Sciences Interdisciplinary Courses (ASI)**

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<th>Course Title</th>
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<td>100</td>
<td>Introduction to American Culture (3)</td>
<td>Survey of contemporary American culture, basic history, geography, cultural characteristics, and customs</td>
<td>PREQ International student or permission of instructor COREQ ENGL 130 or permission of instructor</td>
</tr>
<tr>
<td>108</td>
<td>(308) The Ancient and Medieval Experience (3)</td>
<td>Exploration of relationships of ideas, art, and philosophy in the historical context of antiquity, the Greco-Roman world, and the middle period</td>
<td>PREQ ENGL 102 (P3a)</td>
</tr>
<tr>
<td>230</td>
<td>Introduction to Women's Studies (1)</td>
<td>Introduction to a variety of disciplinary perspectives as they affect the status and roles of women in society</td>
<td></td>
</tr>
</tbody>
</table>
293 Special Topics (1-4, R6)

300 University Forum for Contemporary Issues (1, R6)
Issues, problems, and developments of current interest presented by faculty and, occasionally, visiting scholars S/NC grading

301 Introduction to American Studies (3)
The rationale of American studies, emphasis on one period to reveal the interrelationships among the many facets of American culture

393 Special Topics (3, R12)

493 Topics in American Studies (3, R6)
Seminar on particular facets of American culture such as literature and art, philosophy and politics, and folklore and society PREQ 301

Graduate Courses
593 Topics in American Studies (3, R6)

Astronomy (AST)

101 Descriptive Astronomy (3-4)
Characteristics of solar stellar systems examined in terms of the technologies and attitudes of man 3 Lecture, 2 Lab (optional) (P2)

201 (302) Cosmos (3)
Analysis and evaluation of man's evolving understanding of the universe based on Carl Sagan's Cosmos (F3)

250 General Astronomy (4)
Solar and stellar astronomy, including distances, masses, and luminosities of stars, recent discoveries PREQ MATH 140 or 153 3 Lecture, 2 Lab

301 Modern Astronomy (3)
Techniques of measurement and research PREQ 250 2 Lecture, 1 Lab

401 Celestial Mechanics (3)
Orbital mechanics, one- and two-body problems, Hamilton-Jacobi theory PREQ 301, PHYS 231

Graduate Courses
601 Astronomy for Teachers (3)

Biology (BIOL)

101 Biology in the Contemporary World (3-4)
Concepts derived from cellular, organismic, ecological, evolutionary, and cultural perspectives to develop awareness of the human condition 3 Lecture, 2 Lab/discussion/demonstration (optional) (P2)

107 (307) Classical Experiments in Biology (3)
Classical experiments used as the basis for exercises involving analysis of scientific reasoning, the scientific method, and experimental design (F3)

108 Recreational Botany (1)
Identification of native plants on campus and in the field using popular plant guides, derivation of plant names, food and medicinal uses of plants Two Saturday hikes required 2 Field (F5)

130 General Botany (4)
Diversity in plants, structure, phylogeny, classification, life histories, and aspects of the physiology of algae, fungi, bryophytes, and vascular plants 3 Lecture, 3 Lab
131 General Zoology (4)
Evolutionary relationships, functional morphology, physiology, and natural history of the major groups of animals, dissections and other lab exercises emphasize functional morphology 3 Lecture, 3 Lab

132 Human Genetics in Society (3)
Study of the inheritance and development of human characteristics and of the relationships of genetics to society PREQ 101 or permission of instructor

133 Environmental Biology (3)
Ecosystem function in relation to human activities Energy, biogeochemical cycles, population dynamics, evolution, biodiversity, and extinction in relation to human population growth, resource use, and impact on the environment

134 Principles of Biology (4)
Introduction to cell biology, genetics, and human systems biology 3 Lecture, 2 Lab

213 Techniques of Biological Photography (3)
Basic techniques in photographic theory as applied to scientific documentation emphasizing photomacrophotography, photomicrography, and field techniques Two required Saturday field trips 1 Lecture, 6 Lab

232 General Ecology (3)
Ecosystem and population processes, pathways of energy and materials, interactions between organisms and populations, human role in the biosphere PREQ 130, 131, or permission of instructor 2 Lecture, 3 Lab

242 Genetics and Evolution (3)
Processes of inheritance and evolution, experiments with various animals, plants, and bacteria PREQ 130, 131 or permission of instructor 2 Lecture, 3 Lab

251 Natural History of the Southern Appalachians (4)
Interdisciplinary study of this unique environment, on-site studies, scheduled pack trips PREQ 130 or 131 2 Lecture, 6 Lab

254 Dendrology (4)
Structure, distribution, identification, and economic uses of major forest trees of the United States, emphasis on regional species 2 Lecture, 6 Lab/field

291 Human Anatomy and Physiology (4, 4)
292 The skeletal, muscular, digestive, circulatory, respiratory, excretory, integrative, and reproductive systems 3 Lecture, 3 Lab

311 Animal Physiology (2)
Principles of homeostasis, cell and tissue communication systems, contractility, respiration, excretion, and metabolism in animals PREQ 131, CHEM 136

313 Microbiology in Health and Nutrition (3)
Morphological, cultural, biochemical, and staining characteristics of microorganisms, emphasis on those that infect man and occur in water, food, and dairy products PREQ Permission of instructor 2 Lecture, 3 Lab

315 Introduction to Plant Physiology (1)
Introduction to plant metabolism, conduction, development, and defense mechanisms PREQ 130, CHEM 136 1 Lecture, 1 Lab

333 Cell and Molecular Biology (3)
Viral, prokaryotic, and eukaryotic cell structure, DNA structure and replication, RNA and protein synthesis, control of gene expression Structure and function of specific cell types PREQ 130, 131, or permission of instructor 2 Lecture, 3 Lab

361 (CHEM 361) Principles of Biochemistry (3)
373 Invertebrate Zoology (4)
Morphology, physiology, behavior, ecology, and evolution of invertebrates
PREQ 131 2 Lecture, 6 Lab

374 Vertebrate Zoology (4)
Morphology, physiology, behavior, ecology, and evolution of vertebrates
PREQ 232, 242, and 311, or permission of instructor 2 Lecture, 6 Lab

389 Cooperative Education in Biology (1 or 3, R15) See Cooperative Education Program

413 Principles of General Microbiology (2)
Survey of microorganisms emphasizing morphology, physiology, immunology, and ecology, microorganisms and disease, environmental and applied microbiology
Not open to students with credit in 313

414 Methods of General Microbiology (2)
Microscopy, morphological, cultural, physiological, and serological characteristics of microorganisms, microbiology of food, milk, water, and soil COREQ 413 6 Lab

415 Plant Physiology (4)
Aspects of plant metabolism, water relationships, transport, development, and defense mechanisms
PREQ 130, CHEM 136 3 Lecture, 3 Lab

417 Biochemistry (3)
The metabolism of carbohydrates, lipids, nucleic acids, and proteins in plant and animal systems
PREQ 232, 242, 311, and CHEM 242, 271, or permission of instructor

419 Cell Biology (4)
Structure and function, techniques for the study of cells
PREQ 311 3 Lecture, 3 Lab

425 Flora of the Southern Appalachians (4)
Taxonomy of the flowering plants of the region, family relationships, use of keys for identification, and recognition, collection, documentation, and preservation of specimens
One weekend field collecting trip
PREQ 130 2 Lecture, 6 Lab/field

434 Terrestrial Ecology (4)
Population, ecosystem, community structure, and dynamics, major North American biomes, field and descriptive methods, required weekend field trips
PREQ 232, 242, 311 2 Lecture, 6 Lab/field

435 Aquatic Ecology (4)
Biological, physical, and chemical components and processes in lakes and streams, field studies of local lakes and their biota
PREQ 232 2 Lecture, 6 Lab

443 Evolutionary Processes (3)
Mechanisms of evolution, emphasis on current research and hypotheses such as group and kin selection, r and K selection, and sympatric speciation
PREQ 232, 242, 311

451 Biology of Fungi (4)
Slime molds and true fungi, life histories, morphology, host-parasite relationship, fine structure, and phylogeny
PREQ 130

452 Plant Anatomy (4)
Plant cells, tissue organization in phylogenetic perspective, botanical microtechniques
PREQ 130 3 Lecture, 3 Lab

453 Principles of Systematics (4)
Principles and methods used in describing animal and/or plant taxa and in testing hypotheses of evolutionary relationship, individual research projects on the systematics of selected taxa
PREQ 242 3 Lecture, 3 Lab
455 Vascular Plants (4)
Biology of higher plants, club and small club mosses, quill worts, scouring rushes, ferns, gymnosperms, and angiosperms in living and fossil form  PREQ 232, 242, 311  3 Lecture, 3 Lab

457 Biology of Algae (4)
Life history, structure, reproduction, and phylogeny of the algae  PREQ 130  3 Lecture, 3 Lab

466 Aquaculture (1)
An introduction to the concepts upon which commercial practices for the intensive production of fish are based, a review of the generic elements involved in aquaculture systems with examples of aquatic farming, and examination of problems related to this emerging industry  PREQ 131, 232, or permission of instructor

467 Biostatistics (3)
Statistical concepts and methods for biologists, especially students planning research problems  Design of experiments for computer analysis by ANOVA, single or multiple regression, principal components  An elementary statistics course is recommended  2 Lecture, 2 Lab

470 Biology of Arthropods (4)
Functional morphology, physiology, natural history, and systematics of the arthropods, field/lab emphasis on spiders  PREQ 131  2 Lecture, 6 Lab

471 Animal Behavior (4)
Mechanisms, development, functional significance, and evolution of behavior, individual research projects, films, and discussions in lab  PREQ 131 or permission of instructor  3 Lecture, 3 lab

475 Animal Development (4)
Development in animals, gametogenesis, fertilization, cleavage, gastrulation, organogenesis, embryonic adaptations, differentiation, and growth  PREQ 311, 232, 242  3 Lecture, 3 Lab

476 Contemporary Fisheries (3)
Biological concepts and alternative management practices involved in the protection, conservation, restoration, augmentation, and cultivation of fisheries resources  PREQ 131, 232 or permission of instructor  2 Lecture, 2 Lab

478 Histology (4)
Vertebrate microscopic anatomy, emphasis on mammals, study of microscopic slides  PREQ 131  2 Lecture, 6 Lab

480 Research in Biology (2, R6)
PREQ Junior standing, permission of research director

493 Studies in Biology (1-6, R12)
PREQ Permission of department head

498 Senior Thesis I (2)
Directed research conducted in the first semester of the senior year  PREQ Permission of department head

499 Senior Thesis II (1)
Senior thesis and oral presentation following completion of directed undergraduate research  PREQ 498
### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>137</td>
<td>Graduate Courses</td>
<td></td>
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<tr>
<td>513</td>
<td>Principles of General Microbiology</td>
<td>(2)</td>
</tr>
<tr>
<td>514</td>
<td>Methods of General Microbiology</td>
<td>(2)</td>
</tr>
<tr>
<td>515</td>
<td>Plant Physiology</td>
<td>(4)</td>
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<tr>
<td>517</td>
<td>Biochemistry</td>
<td>(3)</td>
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<tr>
<td>519</td>
<td>Cell Biology</td>
<td>(4)</td>
</tr>
<tr>
<td>525</td>
<td>Flora of the Southern Appalachians</td>
<td>(4)</td>
</tr>
<tr>
<td>534</td>
<td>Terrestrial Ecology</td>
<td>(4)</td>
</tr>
<tr>
<td>535</td>
<td>Aquatic Ecology</td>
<td>(4)</td>
</tr>
<tr>
<td>543</td>
<td>Evolutionary Processes</td>
<td>(3)</td>
</tr>
<tr>
<td>551</td>
<td>Biology of Fungi</td>
<td>(4)</td>
</tr>
<tr>
<td>552</td>
<td>Plant Anatomy</td>
<td>(4)</td>
</tr>
<tr>
<td>553</td>
<td>Principles of Systematics</td>
<td>(4)</td>
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<tr>
<td>555</td>
<td>Vascular Plants</td>
<td>(4)</td>
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<tr>
<td>557</td>
<td>Biology of Algae</td>
<td>(4)</td>
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<tr>
<td>566</td>
<td>Aquaculture</td>
<td>(1)</td>
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<tr>
<td>567</td>
<td>Biostatistics</td>
<td>(3)</td>
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<tr>
<td>570</td>
<td>Biology of Arthropods</td>
<td>(4)</td>
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<td>571</td>
<td>Animal Behavior</td>
<td>(4)</td>
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<tr>
<td>575</td>
<td>Animal Development</td>
<td>(4)</td>
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<tr>
<td>576</td>
<td>Contemporary Fisheries</td>
<td>(3)</td>
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<tr>
<td>578</td>
<td>Histology</td>
<td>(4)</td>
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<tr>
<td>593</td>
<td>Advanced Studies in Biology</td>
<td>(1-6, R12)</td>
</tr>
<tr>
<td>611</td>
<td>Biomembranes</td>
<td>(3)</td>
</tr>
<tr>
<td>612</td>
<td>Principles of Chemical Ecology</td>
<td>(3)</td>
</tr>
<tr>
<td>613</td>
<td>Molecular Biology</td>
<td>(3)</td>
</tr>
<tr>
<td>614</td>
<td>Principles of Chemical Ecology Laboratory</td>
<td>(2)</td>
</tr>
<tr>
<td>622</td>
<td>Virology</td>
<td>(3)</td>
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<tr>
<td>632</td>
<td>Biogeography</td>
<td>(3)</td>
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<tr>
<td>642</td>
<td>Developmental Genetics</td>
<td>(3)</td>
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<tr>
<td>672</td>
<td>Ichthyology</td>
<td>(4)</td>
</tr>
<tr>
<td>678</td>
<td>Colloquium in Invertebrate Biology</td>
<td>(3)</td>
</tr>
<tr>
<td>693</td>
<td>Topics in Biology</td>
<td>(1-6, R12)</td>
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<tr>
<td>694</td>
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<tr>
<td>699</td>
<td>Thesis Research</td>
<td>(3, R6)</td>
</tr>
</tbody>
</table>

### Business Administration (BA)

**133 Introduction to Business (3)**
Principles of business, forms of organizational structure, marketing strategies, financial institutions, quantitative tools, management information systems, and international implications.

**304 Business Communications in a Multicultural Environment (3)**
Analysis of the multicultural workforce and its impact on the communicating process. Studies of effective leadership styles, protocols, and negotiating skills will be examined through case studies, debates, and current research.

**404 Strategic Management (3)**
Capstone course integrating all aspects of the business core curriculum using case method, term projects, and/or computer simulations. **PREQ** All other business core courses.

### Graduate Courses

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<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>500</td>
<td>Accounting for Management Analysis</td>
<td>(3)</td>
</tr>
<tr>
<td>505</td>
<td>Economics and Public Policy</td>
<td>(2-3, R5)</td>
</tr>
<tr>
<td>510</td>
<td>Information Systems and Statistical Methods</td>
<td>(2, R4)</td>
</tr>
<tr>
<td>515</td>
<td>Management, Marketing, and Legal Issues</td>
<td>(2, R6)</td>
</tr>
<tr>
<td>589</td>
<td>Cooperative Education Experience</td>
<td>(3)</td>
</tr>
</tbody>
</table>

### Business Law (LAW)

**101 (321) Legal Thought, Reasoning, and Implications (3)**
Analysis, synthesis, and integration of law and the contemporary legal system through the study of the court's thinking, reasoning, and expression. **(F3)**

**205 (325) Legal Issues and Institutions (3)**
Social change through the legal environment, legal institutions in various cultures, impact on other social institutions, interpretation and analysis of interrelationships. **(Plb)**

**230 Legal Environment of Business (3)**
Social responsibility of business, ethics, legal concepts, legislation and administrative decisions having an impact on business.

**302 Contemporary Legal Problems (3)**
Relationship of law to the structure of society, study of prominent court decisions reflecting changes dictated by societal movements, civil litigation.

**303 Consumer Protection (3)**
General products liability laws, federal and state legislation, consumer credit and reporting.
305 Jurisprudential Theory (3)
Sources of law, natural law, case law and legal precedent, statutory and constitutional law, rights theories, classical formalism, legal realism, critical legal studies, the effect of law on management and practice of business  PREQ  Junior standing

315 Athletics and the Law (3)
Legal issues and litigation affecting sports

320 Multinational Corporate Law (3)
Problems of multinational corporations in the international legal environment, exports, imports, and political and legal risks affecting direct investment, foreign sovereign immunity from legal process, international litigation, and commercial arbitration  PREQ  Law 230 or permission of instructor

331 Business Transactions I (3)
Law of contracts, commercial paper, security interests in property, The Uniform Commercial Code

332 Business Transactions II (3)
Business organizations, agency law, government regulations, legal liability, bankruptcy  PREQ  331

389 Cooperative Education in Business Law (1 or 3, R15)  See Cooperative Education Program

393 Topics in Business Law (1-3, R6)

403 Property and Estates (3)
Legal aspects of buying and selling real estate, federal and state taxation, estate planning and administration

405 Rights of the Individual (3)
Philosophical and historical aspects of individual rights, interpretation of constitutional provisions as applied by courts in public, private, and business situations

410 Witnesses and Evidence (3)
Persuasion, evidence, and presumptions, introduction and exclusion of evidence, examination, opinions, and competency of witnesses, testimonial and constitutional privileges, pre-trial communications, real, scientific, and hearsay evidence

412 Business Ethics and Corporate Social Responsibility Theories (3)
Ethical theory and decision making in the market, corporation as a moral agent, ethics as a component in strategic decision making, government regulations and fiduciary obligations  PREQ  Junior standing

415 Legal Aspects of Business Management (3)
Comprehensive study of legal considerations in developing and managing a business

440 Labor Law (3)
Legal aspects of industrial relations, arbitration, bargaining, strikes, and labor practices, mediation and conciliation of employment disputes

480 Independent Research in Business Law (3)
PREQ  Business law major, permission of department head

483 Internship in Business Law (3, 3, 3)
484 Supervised experience in applications of previously studied theory  S/U grading  485 PREQ  Junior standing, 2.0 GPA; permission of department head Minimum of 10 hours per week

Graduate Courses
630 International Law (3)
693 Topics in Business Law (1-3, R6)
695 Seminar in Business Law (3)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>Chemistry in Society</td>
<td>Introduction to chemistry emphasizing the impact of chemistry and scientific reasoning on society</td>
<td>3 Lecture, 2 Lab (optional)</td>
<td>3-4</td>
</tr>
<tr>
<td>132</td>
<td>Introductory Chemistry</td>
<td>Fundamentals of chemistry for majors in fields requiring no more than one year of chemistry</td>
<td>3 Lecture, 3 Lab</td>
<td>4</td>
</tr>
<tr>
<td>133</td>
<td>Survey of Organic and Biochemistry</td>
<td>Survey of the major functional classes of compounds in organic and biochemistry, including structure and nomenclature, chemical and physical properties, and common uses</td>
<td>PREQ 132 or 135</td>
<td>4</td>
</tr>
<tr>
<td>135</td>
<td>General Chemistry</td>
<td>Basic chemistry for science majors, atomic structure, chemical bonding, stoichiometry, chemical equilibrium, lab introduction to experimentation</td>
<td>PREQ MATH 100 or pass Algebra Skills Test</td>
<td>4, 4</td>
</tr>
<tr>
<td>136</td>
<td>Organic Chemistry I</td>
<td>Aliphatic and aromatic compounds of carbon, relationships between structure and reactivity</td>
<td>PREQ 136</td>
<td>3</td>
</tr>
<tr>
<td>137</td>
<td>Organic Chemistry II</td>
<td>Continuation of 136, introductory theory of instrumentation and applications of spectral methods in structure determination</td>
<td>PREQ 241</td>
<td>3</td>
</tr>
<tr>
<td>183</td>
<td>Special Projects</td>
<td>Intensive short courses or extended projects for special students</td>
<td>PREQ One semester of highschool chemistry</td>
<td>3, 3</td>
</tr>
<tr>
<td>241</td>
<td>Chemical Techniques</td>
<td>Chemical techniques used in the isolation, purification, and identification of the products of single-step chemical syntheses</td>
<td>PREQ or COREQ 241 6 Lab</td>
<td>2</td>
</tr>
<tr>
<td>311</td>
<td>Industrial Chemistry</td>
<td>Processes, operations, marketing, and management in chemical manufacturing</td>
<td>PREQ 242, 370</td>
<td>3</td>
</tr>
<tr>
<td>321</td>
<td>Inorganic Chemistry</td>
<td>Physical and chemical properties of the elements and their compounds, emphasis on chemical reactions</td>
<td>PREQ 136</td>
<td>3</td>
</tr>
<tr>
<td>330</td>
<td>Aquatic Chemistry</td>
<td>Processes in the distribution, consumption, and circulation of water</td>
<td>PREQ 136 and permission of instructor</td>
<td>2</td>
</tr>
<tr>
<td>352</td>
<td>Physical Chemistry I</td>
<td>Introduction to chemical thermodynamics and kinetics</td>
<td>PREQ 242, MATH 140 or 153</td>
<td>3</td>
</tr>
<tr>
<td>361</td>
<td>Principles of Biochemistry</td>
<td>Structures and properties of biomolecules, central principles of metabolism</td>
<td>PREQ 242</td>
<td>3</td>
</tr>
<tr>
<td>370</td>
<td>Analytical Spectroscopy and Chromatography</td>
<td>Introduction to extraction, TLC, CC, GC, HPLC, AES, AAS, UV, visible, and IR methods</td>
<td>PREQ 271 1 Lecture, 6 Lab</td>
<td>3</td>
</tr>
<tr>
<td>371</td>
<td>Chemical Dynamics</td>
<td>Measurements and data treatment of the dynamics (e.g., kinetics, thermodynamics) of chemical systems</td>
<td>PREQ 370 6 Lab</td>
<td>2</td>
</tr>
</tbody>
</table>
372 Chemical Syntheses (2)  
Multistep synthesis of inorganic and organic compounds  
PREQ 370 6 Lab

380 Research in Chemistry (2, R8)  
Chemical research projects for individual students  
PREQ 2.5 GPA in major and permission of instructor 6 Lab

389 Cooperative Education in Chemistry (1 or 3, R15)  
See Cooperative Education Program

421 Advanced Inorganic Chemistry (3)  
Survey of structure and bonding in inorganic compounds, acid-base theory, coordination complexes of transition metals, fundamentals of crystal-field and ligand-field theory  
PREQ 321 and 352 COREQ 453

432 Instrumental Analysis (3)  
Theory and practice of modern chemical instrumentation, electrochemistry, spectroscopic methods, and nuclear techniques  
PREQ 370 PREQ or COREQ 352 2 Lecture, 3 Lab

441 Advanced Organic Chemistry (3)  
Synthetic methods and mechanistic study to include selected topics emphasizing the relationships between structure and reactivity  
PREQ 242, 370

442 Introduction to Organic Polymers (3)  
Linear and cross-linked polymers, selected topics emphasizing relationships between structure and properties  
PREQ 370

451 Biophysical Chemistry (4)  
Applications of the principles and techniques of physical chemistry to the study of biochemical systems  
PREQ 271, MATH 140

453 Physical Chemistry II (3)  
Quantum mechanics, introduction to molecular spectroscopy, applications of thermodynamics  
PREQ 352, MATH 255, and PHYS 230

454 Computer Interfacing (3)  
Digital logic, computer design, interfacing with laboratory instruments  
PREQ Permission of instructor 2 Lecture, 3 Lab

483 Science Internship (3, 3, 3)  
Application of academic training in an approved agency under faculty supervision  
PREQ Junior standing, 18 hours of chemistry, permission of department head 10 hours per week per course

493 Topics in Chemistry (1-3, R6)  
PREQ Junior standing and permission of department head 1-3 Lecture, 6-0 Lab

495 Seminar in Chemistry (1, R4)  
2 Seminar

Graduate Courses

532 Instrumental Analysis (3)  
652 Graduate Physical Chemistry (3)

541 Advanced Organic Chemistry (3)  
691 Topics in Chemical Education (1-3, R9)

542 Introduction to Organic Polymers (3)  
692 Topics in Inorganic Chemistry (3, R6)

551 Biophysical Chemistry (4)  
693 Topics in Analytical Chemistry (3, R6)

553 Physical Chemistry II (3)  
694 Topics in Organic Chemistry (3, R6)

554 Computer Interfacing (3)  
695 Topics in Physical Chemistry (3, R6)

589 Cooperative Education in Chemistry (3, R6)  
696 Seminar (1, R3)

593 Topics in Chemistry (1-3, R6)  
698 Research in Chemistry (3, R9)

621 Graduate Inorganic Chemistry (3)  
699 Thesis (3, R9)
Cherokee (CHER)

131 Elementary Cherokee I (3)
Audio-lingual practice of basic structures, subjective, objective, and transitive pronominals, present and imperfective verb forms, uses of the distributive infinitives

132 Elementary Cherokee II (3)
Continued audio-lingual practice of basic imperatives, idioms on the imperative stem, verbs of motion and locational, and basic complement types PREQ 131

231 Intermediate Cherokee I (3)
Review and continuation of oral and written grammar, selected readings, lab practice may be assigned PREQ 132

232 Intermediate Cherokee II (3)
Readings and discussions on Cherokee culture, emphasis on pre-Removal culture and its traces in language, readings in specialized areas PREQ 231

351 Phonetics and General Linguistics (3)
Introduction to linguistics, the Cherokee sound system from a phonetic and allophonic view, grammatical categories, morphology, syntax PREQ Permission of instructor

Child Development & Family Relations (CDFR)

261 Family Dynamics (3)
Interdependence between cultural values and diverse family systems in the development and function of family units

361 Environments for Young Children (3)
The physical, emotional, and social environment suitable for young children, room arrangement, scheduling, space utilization, and teacher-child interaction

363 Child Development I (3)
Physical, emotional, social, and mental development from birth through middle childhood 2 Lecture, 2 Lab

364 Survey of Human Development (3)
The life span, prenatal through death, the social, emotional, cognitive, moral, and physical characteristics of each stage

367 Child Development II (3)
Social, emotional, physical, and intellectual development during the preadolescent and adolescent years PREQ 363

389 Cooperative Education in Child Development (1 or 3, R15) See Cooperative Education Program

463 Infancy (3)
Activities and materials that promote infant development during the first 24 months, dynamics of infant-teacher and infant-parent interaction emphasized

464 Family and Community (3)
The integration of current theories and methods of family interaction and involvement in programs for young children and other community settings PREQ 363

465 Day Care Management (3)
Organization and administration of programs in child development and day care centers

466 Methods I (3)
Methods, materials, and experience in the Child Development Center PREQ 361, 363, 463 2 Lecture, 3 Lab
467 Perspectives in Parenting (3)
Effective child-rearing skills, review of current theories, research, and model parenting programs

468 Families: Organization and Function (3)
Family organization and function, the family life cycle and areas of adjustment  PREQ 261 or permission of instructor

469 Family Gerontology (3)
Study of older family members, their relationships, development, life adjustments, and sources of assistance  PREQ 364 or permission of instructor

470 Methods II (3)
Curricular materials in programs for younger children, techniques for implementation and daily planning  PREQ 466 2 Lecture, 3 Lab

480 Independent Study (1-3, R6)  PREQ  Permission of instructor

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student's career field
485 S/U grading  9 hours per week per course  PREQ  Permission of instructor

493 Special Topics (1-3, R6)
Current topics in child and family development

497 Child and Family Seminar (3)
Considerations of current research, professional ethics, personal and career development, child family advocacy and the integration of knowledge with related areas  PREQ 466, 468

Graduate Courses
565 Day Care Management (3) 660 Theories of Child Development (3)
567 Parent Education (3) 661 Contemporary Family Systems (3)
568 Families: Organization and Function (3) 693 Topics in Child and Family Studies (1-3, R6)
569 Family Gerontology (3)

Chinese (CHIN)

131 Beginning Chinese I, II (3, 3)
132 Elements of understanding, speaking, reading, and writing Chinese, concepts of grammar, lab practice required  3 Lecture, 1 Lab

Clinical Laboratory Sciences (CLS) (formerly Medical Technology)

275 Introduction to Medical Technology (1)
Introduction to the profession for those planning a career in medical technology, emphasis on accreditation, certification, ethics, and job analysis

300 Instrumentation and Blood Collection (1)
Electronics, optics, and principles of light applied to lab instrumentation, trouble shooting and preventive maintenance, blood collection and specimen handling  PREQ Admission to CLS sequence  2 Lab

301 Analysis of Body Fluids (2)
The physiology and microscopic-chemical examination of urine, spinal fluid, semen, and gastric constituents  PREQ Junior standing in CLS  1 Lecture, 3 Lab

302 Clinical Microbiology (4)
Mechanisms of disease production, isolation and identification of organisms using current lab procedures  PREQ BIOL 413, 414  2 Lecture, 4 Lab

303 Basic Hematology (3)
Formation and function of cellular components of blood, hematological procedures, coagulation  PREQ Admission to CLS sequence  2 Lecture, 3 Lab
304 Immunology (3)  
Host-parasite relationships, formation and function of antibodies, the immune responses in disease processes  2 Lecture, 3 Lab

305 Clinical Parasitology (2)  
Medically important protozoans, cestodes, trematodes, and nematodes encountered in the laboratory  PREQ Junior standing in CLS  1 Lecture, 3 Lab

306 Immunohematology (4)  
The study of blood component therapy  PREQ 303, 304, CLS major  2 Lecture, 4 Lab

307 Medical Mycology (2)  
Superficial and systemic mycological diseases, methods of isolation and identification  PREQ Junior standing in CLS  1 Lecture, 3 Lab

308 Advanced Hematology (3)  
Hematological states involving classification of anemias, leukemias, enzyme deficiencies, platelet anomalies, and coagulation disorders  PREQ 303  2 Lecture, 3 Lab

309 Clinical Biochemistry (3)  
Clinical parameters measuring the biochemical makeup of body fluids, results of lab tests related to disease states  PREQ CHEM 361  2 Lecture, 3 Lab

310 Principles of Clinical Precepting (1)  
Study of the principles of presenting, bench teaching, learning assessment, and entry-level performance in clinical laboratory teaching  PREQ Junior standing in CLS or permission of instructor

389 Cooperative Education in Medical Technology (1 or 3, R12)  
PREQ HSCC 389 See Cooperative Education Program

406 Laboratory Management (2)  
Organization and administration of the clinical laboratory  PREQ CLS major  1 Lecture, 2 Lab

480 Independent Study (1-2)  
PREQ Permission of instructor

485 Clinical Practicum in Urinalysis (2)  
PREQ 301  6 Clinic

486 Clinical Practicum in Hematology (3-5)  
PREQ 308  9-15 Clinic

487 Clinical Practicum in Blood Banking and Serology (3-5)  
PREQ 306  9-15 Clinic

488 Clinical Practicum in Microbiology (3-5)  
PREQ 302, 305, 307  9-15 Clinic

489 Clinical Practicum in Clinical Chemistry (3-5)  
PREQ 309  9-15 Clinic

Clothing, Textiles, and Merchandising (CTM)

140 Fashion Analysis (3)  
The aesthetic, functional, and economic aspects of fashion apparel creation and selection

141 Clothing Selection and Construction (3)  
Principles and techniques, fitting, altering, and constructing commercial patterns  2 Lecture, 3 Lab
242 Textiles (3)
Construction, properties, recommended uses and care of fibers, yarns, and fabrics, applications to consumer purchasing and use of clothing and household textiles

243 Apparel Quality Analysis (3)
Analysis of apparel products with focus on quality, performance, and cost decisions relative to product development and production, specification for materials, components, assembly, and stitchology

245 Dynamics of the Fashion Industry (3)
Comprehensive survey of the scope and operation of the fashion industry

246 Fashion Buying and Merchandising (3)
Fundamentals for the successful merchandising of fashion goods PREQ 245 or permission of instructor

340 Fashion in Retrospect (3)
Aesthetic, social, political, and economic influences on the development of apparel, application of design principles to modern fashion PREQ 140 or permission of instructor

342 Apparel Production Processes (3)
Concepts and practices for the production of basic apparel items, including selection of fabrics and other raw material garment components, analysis of fit and construction processes used in apparel at various production levels PREQ 242, 243 or permission of instructor 2 Lecture, 3 Lab

343 Tailoring (3)
Selection of patterns and fabrics, fitting commercial patterns, construction and pressing techniques PREQ 141 2 Lecture, 3 Lab

344 Fashion Design Fundamentals (3)
Applications of design principles in apparel manufacturing using flat pattern techniques PREQ 140, 342 2 Lecture, 2 Lab

346 Merchandising Apparel for Profit (3)
Principles and practices related to the planning and control of an apparel merchandising operation PREQ 246, MATH 101 or equivalent, ACCT 161 or 251

389 Cooperative Education (1 or 3, R15) See Cooperative Education Program

441 Textile and Apparel Economics (3)
Economic and social aspects of textile and apparel production, distribution, and use PREQ 242, 243, 246 or permission of instructor, ECON 130

443 Cultural Aspects of Clothing (3)
Cultural factors influencing clothing habits of individuals and groups as related to their environment

445 Fashion Product Analysis (3)
Value analysis of the composition of fashion and home-furnishing products PREQ 242, 243, 347

446 Principles and Techniques of Fashion Retailing (3)
Case study approach to the operation and management of fashion business enterprises PREQ 346, 347, MKT 301, MGT 300, or permission of instructor
140 Introduction to Mass Communications (3)
Survey of the history, function and economics of the communication industry

150 Interpersonal Communication (3)
Basic theory and skills in interpersonal communication including gender, nonverbal, listening and interviewing skills

250 Public Communication (3)
Basic principles of skills in public and group communication  
PREQ  ENGL 102

301 Writing for Mass Communications (3)
Elements of news, news values, basic interviewing techniques, writing principles and fundamentals, styles used in journalism, broadcasting, advertising, and public relations  
PREQ  ENGL 102, CMCR 140, CIS 293 Beg Micro Applications

350 Communication Theory and Research (3)
Survey of the theory, research and legal aspects of the communications industry  
PREQ 140 and 3 credit statistics course

389 Cooperative Education in Communications (1 or 3, R 9)
See Cooperative Education Program  
PREQ Completed 60 hours and permission of department head

401 Editing for Mass Communications (3)
Elements of critical thinking and analysis fundamental to the editorial process in mass communication  
PREQ  301 and 350

465 Communications Ethics and Responsibilities (3)
The legal and moral responsibilities of communicators in the communication industry  
PREQ  90 or more hours

483 Internship in Communications (3, R9)
Work experience in the communication industry  
S/U grading  
PREQ Completed 60 hours and permission of department head  
9 hours per week per 3-hour course

494 Communication Projects (1-3, R6)
Practical experience, performance, research in debate, forensics, film, electronic and print media  
PREQ Permission of instructor

496 Seminar in Professional Development (1)
The development and evaluation of professional credentials for entry into the communication industry
## COMMUNICATION - Electronic Media (CMEM)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>PREQs</th>
<th>Lecture</th>
<th>Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>351</td>
<td>Comparative Studies in Film/TV (3)</td>
<td>Evaluative study of the relationship between the film and television industries, historical perspectives, techniques and impact, emphasis on the “language” of video</td>
<td>CMCR 301</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>354</td>
<td>Radio Production I (3)</td>
<td>Practical course in production of radio commercials, public service materials, and news actualities</td>
<td>CMCR 301</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>355</td>
<td>Television Production I (3)</td>
<td>Producing and directing various television programs and productions, emphasis on studio operations</td>
<td>CMCR 301</td>
<td>1</td>
<td>4</td>
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<tr>
<td>358</td>
<td>Broadcast Announcing (3)</td>
<td>In-depth skills course in radio and television announcing and “on-camera” appearances, emphasis on development of the broadcast voice</td>
<td>CMCR 301 and CMHC 311</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>450</td>
<td>Directing for the Camera (3)</td>
<td>The art of directing on-camera performances</td>
<td>CMCR 301 and CMHC 311</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>451</td>
<td>Advanced Studies in Film and Television (3)</td>
<td>Advanced studies in technical analysis and sociological impact of film and television</td>
<td>351 or permission of instructor</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>452</td>
<td>Writing for Broadcast (3, R9)</td>
<td>Writing commercials, public service announcements, station promotions, and short educational/entertainment features for radio and television</td>
<td>CMCR 301</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>454</td>
<td>Radio Production II (3)</td>
<td>Editing and related technical skills</td>
<td>CMCR 301</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>455</td>
<td>Television Production II (3)</td>
<td>Continuation of 355, emphasis on field production, editing, and related technical/creative skills</td>
<td>CMCR 301</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>456</td>
<td>Broadcast Operations (3)</td>
<td>Principles of management in radio, television, and cable at the local and network levels</td>
<td>354 or 355</td>
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<tr>
<td>457</td>
<td>Radio and Television Programming (3)</td>
<td>Techniques of programming for AM, FM commercial, and FM educational radio, educational and commercial television, cable and satellite operations</td>
<td>354 or 355</td>
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<tr>
<td>458</td>
<td>Broadcast Sales and Promotion (3)</td>
<td>Introduction to the skills involved in selling broadcast time and broadcast promotions</td>
<td>354 or 355</td>
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<tr>
<td>459</td>
<td>Broadcast News (3)</td>
<td>Finding sources of information, developing interview techniques, and writing news for radio and television, emphasis on completing tasks under deadline conditions</td>
<td>CMCR 301</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>
493 Selected Topics in Electronic Media (3, R9)
Study in a special area of interest in electronic media

COMMUNICATION - Human Communication (CMHC)

110 Persuasive Thinking, Reasoning, and Expression (3)
Development of thinking, reasoning, and oral skills through various rhetorical problems and simulations, emphasis on the student's analysis, synthesis, integration, communication, and valuing behaviors (F3)

201 Introduction to Speech Communication (3)
Basic principles of communication skills in interpersonal, small group, and public communication PREQ ENGL 101

311 Voice and Articulation (3)
Effective speech production, individual practice, standards of good diction, introduction to phonetics

312 Group Discussion and Conference (3)
Techniques for participation in small groups, roles of group leader and participant, practice in problem-solving deliberation, parliamentary practice

313 Argumentation and Debate (3)
Analysis, evidence, refutation, reasoning, techniques of delivery, participation in debate required

314 Professional Speaking (3)
Advanced principles of public communication skills as related to professional speaking PREQ CMCR 250

315 Organizational Communication (3)
Channels of oral communication in complex organizations, organizational influences on communication

411 Rhetorical Theory and Criticism (3)
Ancient and modern concepts and theories, application to rhetorical acts

414 Gender Communication (3)
An examination of the communication behavior of women and men in different contexts, existing communication differences dealing with self-perception, information processing, verbal and nonverbal coding, images of women and men

415 Intercultural Communication (3)
Nature of intercultural communication, variables of both culture and communication and the impact on intercultural communication in our ever-changing world

493 Selected Topics in Human Communication (3, R9)
Study in a special area of interest in human communication

Graduate Course
593 Selected Topics (3)

COMMUNICATION - Print Media (CMPM)

302 Reporting of Public Affairs (3, R6)
Advanced reporting course on selected public affairs topics PREQ CMCR 301
303 Persuasive Writing (3)
Writing persuasive messages for selected audiences in public relations, advertising and promotions, and mass media PREQ CMCR 301

304 Magazine and Feature Writing (3)
Writing feature material for newspapers and magazines PREQ CMCR 301

305 Sports Writing (3)
Fundamentals of sports reporting for print media PREQ CMCR 301

402 Print Media Production (3)
Layout, design, and production for print media PREQ CMCR 350

403 Association Communications (3)
The development and operation of effective communications programs for nonprofit organizations PREQ CMCR 401

404 Desktop Publishing (3)
The use of personal computers and peripherals to produce publications and promotional materials PREQ CMCR 401

493 Selected Topics in Print Media (3, R9)
Study in a special area of interest in print media

COMMUNICATION - Public Relations (CMPR)

360 Introduction to Public Relations (3)
The study of the management function of controlling an organization’s communication with its publics PREQ CIS 293 Beg Micro Applications

460 Public Relations Campaigns (3)
Identification and analysis of organizational publics, the development of specific communication strategies to influence those publics, and the implementation and evaluation of those communication strategies PREQ 360

493 Selected Topics in Public Relations (3, R9)
Study in a special area of interest in public relations PREQ 360

COMMUNICATION - Theatre Arts (CMTA)

102 Theatre Production: Stagecraft (1)
Hands-on participation in the construction/painting of stage scenery 4 Lab (F5)

103 Theatre Production: Costume (1)
Hands-on participation in the construction of stage costumes and accessories 4 Lab (F5)

104 The Theatre Experience (3)
Analysis of what the theatre is about, what goes on in the theatre, and what it means to be a viewer P3b

130 Makeup (1)
Application of stage makeup

131 Introduction to Theatre (3)
Survey of theatre profession for beginning majors and minors 2 Lecture, 2 Lab
140 Acting I (3)
Introduction to the basic principles of acting

231 Stagecrafts I (3)
Introduction to theatre crafts and technology  PREQ  131  2 Lecture, 2 Lab

270 Theatre Arts Workshops I (1-3, R6)
Practical experience, performance, crews in theatre productions  PREQ  Permission of instructor  3 lab per credit hour

300 Dramatic Literature and Criticism I (3)
Dramatic structure, interpretation, and evaluation of masterpieces, Greek period to 1700  PREQ  131

301 Dramatic Literature and Criticism II (3)
Dramatic structure, interpretation, and evaluation of masterpieces, 1700 to present  PREQ  300 or permission of instructor

330 Makeup II (1)
Three dimensional makeup and mask building  Project-oriented, emphasis on portfolio preparation  PREQ  130  3 Lab

331 Stagecrafts II (3)
Continuation of CMTA 231 with emphasis on application to production  PREQ  131, 231

332 Introduction to Theatrical Design (3)
Principles and practices of design as applied to theatre  Project-oriented  PREQ  331

333 Scenic Technology (3)
Advanced theory and practice in technology associated with scenic construction, emphasis on preparation for supervision of a basic scene shop  PREQ  332

335 Lighting Technology (3)
Advanced theory and practices in technology associated with theatre lighting, emphasis on preparation for supervision of lighting crew  PREQ  332

337 Costume Technology (3)
Advanced theory and practice associated with costume construction, emphasis on preparation for supervision of a basic costume shop  PREQ  332

340 Acting II (3)
Introduction to character analysis and styles  PREQ  131, 140

341 Acting III (3)
Advanced scene work for theatre majors  PREQ  340

345 Acting for the Camera I (3)
The art of acting as it relates to the television/film environment  PREQ  140 or 340  2 Lecture, 2 Lab

346 Acting for the Camera II (3)
PREQ  345

350 Directing I (3)
Survey and practical application of the basic theories of play directing  PREQ  131, 140, 231
351 Directing II (3)
Directing colloquium, production problems and solutions  PREQ 350

370 Theatre Arts Workshops II (1-3, R6)
Practical experience, performance; leadership portions of theatre productions  PREQ
Permission of instructor  3 lab per credit hour

389 Cooperative Education in Theatre Arts (1-3, R6)
See Cooperative Education Program  PREQ Completed 60 hours and permission of
department head

400 History of the Theatre I (3)
The theatre in performance  Origins and development of theatrical forms and style
through the study of acting, physical facilities, design, and the cultural milieu of the
audience, Greek period to 1700  PREQ 12 hours in major

401 History of the Theatre II (3)
The theatre in performance  Origins and development of theatrical forms and style
through the study of acting, physical facilities, design and the cultural milieu of the
audience, 1700 to present  PREQ 400

433 Scene Design (3)
Theory and practice in the design of stage scenery  Project oriented, emphasis on
portfolio preparation  PREQ 333

435 Lighting Design (3)
Theory and practice in the design of stage lighting  Project oriented, emphasis on
portfolio preparation  PREQ 335

437 Costume Design (3)
Theory and practice in the design of theatrical costumes  Project oriented, emphasis on
portfolio preparation  PREQ 337 or permission of instructor

441 Acting IV (3)
In-depth character analysis and application  PREQ 341

483 Internship in Theatre Arts (3, R9)
Work experience in the theatre industry  S/U grading  PREQ Completed 60 hours
and/or permission of department head  9 hours per week per 3 hour course

486 Theatre Production (3, R12)
Intensive training in performance, design, or theatre technology  PREQ Permission of
department head

493 Selected Topics in Theatre Studies (3, R9)
Study in a special area of interest in theatre

496 Seminar in Professional Development (1)
Seminar in career preparation for the emerging professional  PREQ Senior status

499 BFA Thesis (2)

Graduate Courses
586 Theatre Production (3)
Communication Disorders (EDCD)

270 Introduction to Communication Disorders (3)
Overview of speech-language-hearing disorders in children and adults

301 Speech and Language Development (3)
Speech and language development in normal children, survey of procedures and tools used to study language development and acquisition

302 Communication Development and Disorders (3)
The developmental phases of content, form, and use of language, survey of techniques for use with language-disordered children, designed for nonmajors

320 The Clinical Process (3)
Orientation to the roles and responsibilities of clinicians in the practice of speech-language pathology and audiology PREQ 270 or permission of instructor

370 Phonetics (3)
Study of sound feature production, phonetic transcription

371 Articulation Disorders (3)
The etiology, diagnosis, and treatment of articulation and phonological disorders PREQ 270 and 370 or permission of instructor

372 Speech Science (3)
Principles and concepts in speech production and perception, techniques for acoustic analysis PREQ 370 or permission of instructor

450 Introduction to Audiology (3)
Fundamentals of audiology, the physics of sound and its measurement, aural anatomy, physiology, etiology, and pathology

471 Anatomy and Physiology of the Speech Mechanism (3)
Study of the anatomic structures involved in speech and their function in the speech process

474 Voice Disorders (3)
The etiology, evaluation, and treatment of voice disorders PREQ 471 or equivalent

476 Language Disorders in Children (3)
Analysis of childhood language disorders, evaluation and implementation of treatment approaches PREQ 301 or permission of instructor

478 Fluency Disorders (3)
Theory, diagnosis, and treatment of fluency disorders in children and adults

485 Clinical Practicum in Communication Disorders (1, R2)
Supervised evaluation and intervention with articulation-disordered clients PREQ 370 1 Lecture, 2 Clinic

490 Supervised Student Internship (6)
School-based clinical experience under university supervision, includes preschool placements PREQ Admission to professional sequence, PSY 320, 321, EDCI 231 COREQ EDCD 495

494 Topics in Communication Disorders (1-3, R6)

495 Seminar in School Practice (3)
Theory, policy, and procedures related to school-based practice PREQ EDCI 231, EDCD 485, PSY 320, 321
**Computer Information Systems (CIS)**

251 **Management Information Systems (3)**
Management information systems in business organizations, analysis, development, design, implementation, and evaluation of computer-based information systems, computer applications in spreadsheets, word processors, and database systems

256 **Business Computer Programming (3)**
Application of programming principles in business, flowcharting, coding, documentation, and testing, computer architecture and data representation  PREQ 251

258 **Applications Development I (3)**
An introduction to the development of business application systems using a traditional business programming language  Students will develop programs using batch processing techniques for data entry, data validation, file updating, and report generation  PREQ 256

293 **Topics in Computer Information Systems (1-3, R3)**

301 **Microcomputer Applications (3)**
Maximum "hands-on" experience with microcomputers and software packages, including word processing, spreadsheets, database managers and graphics systems

358 **Applications Development II (3)**
The study of advanced tools and techniques needed for developing complex business application systems, techniques for organization of data, on-line processing of data, software engineering, and software maintenance  State-of-the-art development tools are used for building applications  PREQ 258

365 **Computer Architecture, Communications, and Operating Systems (3)**
Architecture of modern computer systems including peripherals, data communications and networking with fault-tolerant computing, language transition, operating systems software and utilities  PREQ 258

389 **Cooperative Education in Information Systems (1 or 3, R15)**  See Cooperative Education Program

451 **Operations Analysis and Modeling (3)**
Simulation as a tool in commercial systems, random variate generation, normal and gamma distribution, time-domain deterministic and stochastic models, special-purpose languages  PREQ 251, ECON 235

453 **Database Management Systems (3)**
An in-depth study of database concepts and skills with emphasis on business applications  Fundamentals of database processing, design, implementation, and administration are covered  Students gain hands-on experience designing and implementing a database using a state-of-the-art database management system  PREQ 258
455 Computer Information Systems Analysis and Design (3)  
Systems development, requirements analysis, cost/benefit justification, software design, implementation and maintenance procedures, quality assurance, and integration of information systems into management decision-making processes  PREQ 453

465 Information Resource Management (3)  
The strategic use of information systems in the business environment, integration of languages, database, communication, analysis, and design concepts, responsibility and accountability of information resource managers, security, legal, and ethical issues, procurement and supervision of resources, resource assessment, expert systems applications and artificial intelligence  COREQ 455

466 Small Business Computing (3)  
Technology, software design, programming techniques, system design and analysis related to mini- and microcomputers  PREQ 251

480 Independent Research in Information Systems (3)  
PREQ CIS major, permission of department head

483 Internship in Information Systems (3, 3, 3)  
484 Supervised experience using previously studied theory  S/U grading  PREQ Junior standing, 2.00 GPA, written application, and permission of department head  Minimum of 10 hours per week

493 Topics in Information Systems (1-3, R6)  
PREQ Permission of department head

Graduate Courses
651 Decision Support Systems (3)  
661 Systems Design (3)  
662 Database Management (3)  
682 Research Project in Computer Information Systems (3, R6)  
693 Topics in Information Systems (1-3, R6)

Computer Science (CS)
101 Computer Concepts (1)  
Computer applications including hands-on experience with word processing, spreadsheets, database management, and graphics  (F4)

141 BASIC Programming (2)  
Introduction to BASIC programming, a structured approach to include graphics, arrays, subroutines, and files

150 Computer Science I (4)  
Problem solving and algorithm development integrated with a high-level language, introduction to top-down design, structured programming, style, and documentation  Introduction to hardware and software concepts, legal and social issues  COREQ MATH 130 or equivalent  3 Lecture, 3 Lab

151 Computer Science II (4)  
Algorithm development with dynamic data types, recursion, implementation of elementary data structures, introductory object-oriented programming, social and legal issues  PREQ 150  3 Lecture, 3 Lab

240 Scientific Programming (3)  
Scientific computer programming in FORTRAN  Not open to students with credit in CS 300 or 301 FORTRAN language  PREQ MATH 146

250 Introduction to Computer Systems (3)  
Computer structure, number representation and arithmetic, machine language, assembly language, addressing techniques, macros  PREQ 151
251 Introduction to Computer Organization (3)
Basic digital logic, architecture, and organization of a modern microcomputer, assembly language, addressing techniques, macros  PREQ 150 2 Lecture, 2 Lab

301 High-Level Languages (3, R9)
ADA, C, PROLOG, LISP, or other high-level languages approved by the department head. Can be repeated for credit with different languages. 301 FORTRAN language not open to students with credit in CS 240. Elective credit for CS majors restricted to 3 hours.

303 Digital Logic (3)
Combinational and sequential logic, Boolean algebra, TTL and MOS logic devices, microprocessors  PREQ 251 2 Lecture, 2 Lab

310 (MATH 310) Discrete Structures (3)
Enumeration topics including arrangements, selections, generating functions, recurrence relations, basic concepts of graphs and trees  PREQ Junior standing or permission of instructor

320 Computers and Society (3)
Brief history of computers, survey of growth of applications and current social issues to include legal issues as they relate to businesses and the individual

351 Data Structures and Algorithm Analysis (3)
Primitive data representation, static and dynamic information storage to include arrays, trees, graphs, stacks, and queues, sorting and searching  PREQ 151

352 Organization of Programming Languages (3)
Language processors, data and data control, operations, sequence control, storage management, operating environment, syntax and translation  PREQ 250

361 Computer Graphics (3)
Storage tube and raster scan graphics terminal technologies, language and data structures for graphics, 2-D and 3-D graphics and transformations, plane and space curves, surface generation  PREQ 150 or 240

362 Files and Data Structures (3)
File structures, including sequential, direct, and keyed organization, sorting, merging, and searching of information structures  PREQ 351

389 Cooperative Education in Computing (1 or 3, R15) See Cooperative Education Program

393 Topics in Computer Science (1-3, R6)
PREQ Permission of department head

441 (MATH 441) Introduction to Numerical Analysis (3)
Finite differences, interpolation, numerical integration and solutions to ordinary differential equations, linear systems, eigenvalues, eigenvectors, errors  PREQ MATH 254 or MATH 262, MATH 255, and CS 150

443 Automata and Formal Languages (3)
Phrase structure grammar, context free languages, finite state machines, pushdown acceptors, Turing machine, recursiveness, and computability  PREQ MATH 310

451 Algorithms (3)
Algorithm analysis, combinatorics, sorting and searching, polynomials, string matching, matrix operations, and numerical analysis  PREQ 351

452 Computer Organization (3)
Digital logic and basic structure of computers, addressing methods, instruction sets, microprogrammed control, I/O organization, arithmetic, memory, peripherals, software, computer communications  PREQ 251
453 Database Theory and Applications (3)
Database architecture internal, conceptual, and external levels, modes of database access, the relational database model, normalization theory, the database environment, non-relational systems PRQ 362

455 Computer Design (3)
Arithmetic unit, control unit, memory hierarchy, pipelining, load balancing, parallel computing using various topologies PRQ 251

460 Compiler Construction I (3)
Grammar and finite state automata, parse trees, top-down and bottom-up parsing, LL(k) and LR(k) grammar, syntax-directed translation, term project PRQ 351

462 Systems Programming (3)
Computer organization and advanced programming, macro-instruction language, linking high-level and assembly language, assemblers, linkers, and loaders PRQ 250

463 Software Engineering (3)
Software development methodologies in very large programming tasks, object-oriented design, information hiding, concurrent processing PRQ 250, 362

464 Microcomputer Development (3)
Software and hardware development and interfacing for dedicated microcomputer applications PRQ 251 or PHYS 302 or IET 371 2 Lecture, 2 Lab

465 Data Communications and Networks (3)
Communications systems components, error detection and correction, network protocols PRQ 303, 351

470 Operating Systems (3)
Major components, memory management, processors, devices, data, characteristics and sharing of devices, files organization, spooling PRQ 250, 351

480 Artificial Intelligence (3)
Machine intelligence, problem reduction, state space search, game trees, expert systems, resolution principle, introduction to LISP PRQ 351

493 Topics in Computer Science (1-6, R6)
Graduate Courses

552 Computer Organization (3)
555 Computer Design (3)
560 Compiler Construction II (3)
564 Microcomputer Development (3)
565 Data Communications and Networks (3)
580 Artificial Intelligence (3)
593 Topics in Computer Science (1-6, R6)
600 Computer Literacy (3)
601 Logo (3)
602 Structured Basic (3)
606 Applications to the K-8 Curriculum (3)
610 Computing Concepts in Programming (3)
611 Data Structures (3)
612 Introduction to Computer Systems (3)
613 Organizations of Programming Languages (3)
614 Introduction to Computer Organization and Architecture (3)
616 Applications to the Mathematics Curriculum-Grades 9-12 (3)
617 Computers in Secondary Education (3)
618 Computer-Assisted Learning (3)

Counseling (COUN)

140 Study Techniques for College (1)
Study techniques and skills, motivation for learning, use of the library, reading improvement laboratory 1 Lecture, 1 Lab

150 Understanding Self and Interpersonal Relations (1)
Study of one’s self, qualities and relationships important to successful personal and interpersonal functioning, participation stressed
430 Individual and Group Counseling (3)
Principles and techniques of individual and group counseling, communication tech-
niques, participation in role playing and group processes

450 Career Development and Guidance (3)
History of vocational guidance, theories of vocational choice, development of voca-
tional maturity, interests, aptitudes, and other factors in vocational development

Graduate Courses

600 Individual and Group Helping Skills (3) 650 Career Development (3) 655 Career Counseling (3) 660 School Counseling Program Development (3) 670 Research in Counseling (3) 680 Independent Study in Counseling (3) 686 Practicum in Counseling (3) 687 Internship in Counseling (3-6, R6) 693 Problems in Counseling (3) 695 Seminar in Counseling (3) 699 Thesis (3, R6) 730 Advanced Theory and Techniques in Counsel-
ing (3) 784 Internship in Counseling (3) 786 Advanced Practicum in Counseling (3)

Criminal Justice (CJ)

250 The Criminal Justice System (3)
Evaluation of formal institutions dealing with crime in Western culture, overview of
major components of the criminal justice system

252 The Communication Process in Criminal Justice (3)
Interpersonal skills in communication stressing on-the-job skills to improve profes-
sional interaction PREQ 250

311 The Juvenile Justice Process (3)
The phenomenon of juvenile delinquency, evaluation of a unique justice system for
children, related concerns, problems, and expectations PREQ 250

320 The Law Enforcement Process (3)
Philosophical, historical, and operational aspects of law enforcement agencies and
processes within a framework of social control in a democratic society PREQ 250

330 The Judicial Process (3)
State and federal court systems, criminal judicial process, rights of the individual
PREQ 250

340 The Corrections Process (3)
Examination of modern corrections through review of penal history, theory, and
practice PREQ 250

350 Criminal Justice Theory (3)
Theories of law, justice, punishment, and crime causation PREQ 250

352 Criminal Justice Planning (3)
Planning as a process of criminal justice decision making using contemporary methods
and techniques PREQ 252

370 Ethics in Criminal Justice (3)
Examination of ethical issues in the criminal justice field PREQ 250

389 Cooperative Education (1 or 3, R15)
See Cooperative Education Program Credit will not be given for both 483 and 389
404 Substantive Criminal Law (3)
The nature and definition of substantive criminal offenses, examination of federal and state law, principles of criminal liability, defenses, and complicity  PREQ 250

406 Legal Aspects of Law Enforcement Administration (3)
Procedural aspects of statutory and case law affecting the administration of law enforcement and the control of police conduct

410 Victimology (3)
A study of the experiences of crime victims with the criminal justice system as well as victim characteristics, vulnerability, and culpability  PREQ 250

420 Criminal Investigations (3)
An analysis of methods used in conducting criminal investigations

423 Criminalistics (3)
A survey of methods and techniques used in the scientific investigation of criminal offenses

424 Probation and Parole (3)
Development, organization, operation, and results of probation and parole systems as substitutes for incarceration

425 Police Tactical Theory (3)
Theories related to the development of police policy concerning appropriate responses to dangerous and potentially lethal confrontations

430 Criminal Evidence (3)
Examination of the rules of evidence and courtroom procedures in criminal trials

440 Organized Crime (3)
Examination of traditional and emerging organized crime groups and their impact on society and the criminal justice field

454 Comparative Criminal Justice Systems (3)
Law enforcement and correctional and court subsystems in the Western world today

460 Drug Abuse (3)
An examination of drugs of abuse and the evolution of drug laws, law enforcement, and correctional responses for drug offenders

480 Independent Study in Criminal Justice (1-3, R6)

482 Senior Directed Research (3)
Directed research/independent study in criminal justice  PREQ 352

483 Internship in Criminal Justice (3-12, R12)
Supervised applications of academic study in a practical criminal justice setting  Credit not given for both 389 and 483  PREQ Junior standing, permission of instructor, 250, 320, 330, 340, and 20 GPA  135 hours per 3 credits

493 Topics in Criminal Justice (1-3, R12)
PREQ Approval of department head

495 Seminar on Criminal Justice Problems (1-3, R6)
PREQ Approval of department head

Graduate Courses
524 Probation and Parole (3) 640 Correctional Administration (3)
593 Topics in Criminal Justice (1-3, R9) 680 Independent Study in Criminal Justice (3, R6)
620 Law Enforcement Administration (3)
Curriculum and Instruction (EDCI)

200 Seminar in Leadership Development (1, R4)
Leadership development through seminars with university and public school professionals, field trips, and service projects. PREQ Admission to the North Carolina Teaching Fellows program.

230 Peer Tutor Training (1, R2)
Principles and techniques of tutoring. PREQ Permission of instructor. 1 Lecture, 2 Lab.

231 Historical, Social, and Philosophical Foundations of Education (3)
An introductory study of the broad historical, sociological, and philosophical aspects of education. Field experience required.

300 Seminar in Teaching and Research (1, R3)
Leadership development through seminars, projects with mentors, and independent study. PREQ Admission to the North Carolina Teaching Fellows program and to the professional education sequence.

480 Reading and Research in Education (3)
PREQ Permission of department head.

Graduate Courses
503 Social Studies in the Secondary School (3)
506 Contemporary Philosophies of Education (3)
580 Reading and Research in Education (3)
595 Seminar in International Understanding (3)
601 Educational Sociology (3)
602 Methods of Research (3)
603 Comparative Education (3)
604 Curriculum Development (3)
605 Foundations of Modern Education (3)
606 Statistical Analysis in Research (3)
609 Educational Tests and Measurements (3)
693 Topics in Education (1, R3)
699 Thesis (4)
700 Philosophy of Education (1, R1)
702 Research Seminar in Curriculum (3)

Earth Sciences (ESI)

471 Field Studies of Selected Regions (3, R6)
Interdisciplinary group project on a designed region, a two-week field trip following spring final exams. Cost to be determined. PREQ Junior standing, GEOL 150 or GEOG 150, and permission of instructor.

Economics (ECON)

103 (311) Economics of Comparative Cultures (3)
Analysis of the effects of differing institutions and values in various cultural systems on the level of output or per capita income, including ownership of the means of production, economic activities and incentives, and price-making forces (P4).

104 (312) Contemporary Economic Institutions (3)
Examination of changes in Western economic institutions, interrelationships of economic, social, and political changes, impact of changes on decision making, economic policy options, and current issues (Pib).

108 (313) The Perfect Society (3)
The application of skills in thinking, reasoning, and expressing through the exercise of developing a "Perfect Society" (F3).

130 Survey of Economics (3)
Principles of micro- and macro-economics, market system, analysis of current economic conditions, fiscal and monetary policy. Not open to students with credit in 231 or 232.

231 Introductory Microeconomics and Social Issues (3)
Microeconomic principles, the market system, supply and demand, pricing, market structures, resources markets.
232 Introductory Macroeconomics and Social Issues (3)
Macroeconomic principles, alternative theories of economic instability, national income, fiscal policy, monetary policy, and international trade

235 Statistics (3)
Measures of central tendency, probability analysis, inferences to populations from large and small samples using univariate, bivariate, and multivariate distributions  PREQ MATH 130

302 Economics of the Firm (3)
The price mechanism and allocation of resources under competition, monopoly, and imperfect competition, applications to decision making  PREQ 231, 232, MATH 130

303 Money, Financial Markets, and Economic Policy (3)
Monetary systems and standards, factors determining money supply, the role of commercial and central banks  PREQ 231, 232

304 Business Conditions Analysis (3)
Evaluation of business indicators, techniques for analyzing current business conditions and forecasting changes in levels of national economic activity  PREQ 231, 232, 235

305 Public Finance (3)
Governmental expenditures, sources of revenue, public credit, principles and methods of taxation and financial administration, fiscal policy

306 Economics of Transportation (3)
Characteristics and problems of intercity transportation modes and agencies  PREQ Any 3 hours in economics

307 Regional Economic Analysis (3)
Regional structure and growth, location theory, interregional income theory, factory mobility, public policy for regional development  PREQ  Any 3 hours in economics

308 Government and Business (3)
Governmental regulation of business, evolution of control, methods, and agencies  PREQ Any 3 hours in economics

309 International Economics (3)
Trade patterns among nations, effects of trade on participant countries, tariffs and quotas, balance of payments, exchange rates, international monetary system  PREQ 231, 232

310 Natural Resource Economics (3)
Economic policy regarding renewable and nonrenewable resources, environmental and energy economics  PREQ 130 or equivalent

389 Cooperative Education in Economics (1 or 3, R15)  See Cooperative Education Program

401 Comparative Economic Systems (3)
Economics under capitalism, socialism, communism, and fascism, organization of production, decision-making, problems of underdeveloped nations  PREQ Any 3 hours in economics

403 Development of Economic Ideas (3)
Ideas of the great economists, great debates in economics  PREQ Any 3 hours in economics

404 Introductory Mathematical Economics (3)
Functions, graphs, calculus, and systems of equations applied to economic analysis  PREQ 231, 232, MATH 130
406 International Economic Development (3)
Institutional forces shaping economic development, developed and less-developed nations compared, population growth, capital formation, educational improvement
PREQ 231, 232

480 Independent Research (3)
PREQ Permission of department head

493 Topics in Economics (1-3, R6)
PREQ Permission of department head

Graduate Courses
607 Managerial Economics (3) 682 Research Project in Economics (3, R6)
608 Business and Managerial Forecasting (3) 693 Topics in Economics (3, R6)
609 International Economics (3)

Education and Psychology (EDPY)

493 Topics in Education and Psychology (1-3, R6)

Graduate Courses
591 Topics in Education and Psychology (1, R3) 692 Topics in Education and Psychology (2, R6)
592 Topics in Education and Psychology (2, R6) 693 Topics in Education and Psychology (3, R6)
593 Topics in Education and Psychology (3, R6) 793 Topics in Education and Psychology (3, R12)
691 Topics in Education and Psychology (I, R3)

Educational Administration (EDAD)

Graduate Courses
600 Theory and Foundations of School Administration (3)
610 The Principalship (3)
620 School Law (3)
630 School Finance and Business Management (3)
640 School Plant Planning and Management (2)
650 School Personnel Administration (3)
660 School-Community Relations (2)
680 Problems in School Administration (1, R3)
681 Independent Study (1)
684 Elementary Principal Internship (1)
685 Secondary Principal Internship (1)
693 Topics in Administration (1, R3)
695 Seminar in the Principalship (2)
700 The Superintendency (3)
710 (EDHE 710) Administration of Two-Year Colleges (2)
720 The Politics of Educational Decision-Making (3)
783 Internship in School Administration (2)
795 Seminar in School Administration (2)

Educational Supervision (EDSU)

Graduate Courses
605 Principles of Supervision (3)
615 Techniques of Supervision (3)
620 School-Based Instructional Leadership (3)
635 Supervision of the Novice Teacher (3)
680 Problems in Supervision (1, R3)
685 Internship in Supervision (2)
693 Topics in Supervision (1, R3)
705 Leadership for Educational Programs (3)
785 Internship in Supervision (2)
795 Seminar in Supervision (2)

Electronics Engineering Technology (EET)

141 Electronic Drafting (1)
Study of drafting and graphics relating to the field of electronics 2 Lab

142 Electronic Fabrication (1)
Study of methods used to assemble and construct electronic circuits and equipment 2 Lab

231 Circuit Analysis I (4)
Introduction to fundamental electrical theory with laboratory confirmation of mathematical solutions involving DC/AC circuits Topics include series, parallel, series-parallel networks, electromagnetic theory, transient circuit analysis, introduction to AC electricity PREQ MATH 145, 146 3 Lecture, 2 Lab
232 Circuit Analysis II (4)
Fundamentals of DC/AC circuits. Topics include AC series, parallel, series-parallel circuits, analysis techniques, network theorems, resonance, and transformers. PREQ 231 3 Lecture, 2 Lab

241 Digital Integrated Circuits I (3)
Study of combinational and sequential digital circuits using integrated circuits techniques. COREQ 231 2 Lecture, 2 Lab

311 Solid State Devices (4)
Theory of discrete semiconductor devices and their applications. PREQ 141, 142, 232 3 Lecture, 2 Lab

312 Analog Integrated Circuits (4)
Study of analog circuits including amplifiers, regulators, interface circuits, and special applications. PREQ 311 3 Lecture, 2 Lab

331 Digital Integrated Circuits II (3)
Continuation of 241 including the study of digital system organization and design. PREQ 241 2 Lecture, 2 Lab

332 Microcontrollers (3)
Study of contemporary 8-bit microcontrollers. Microcontroller architecture, programming and interfacing. PREQ 241 2 Lecture, 2 Lab

341 Advanced Circuit Analysis (3)
Study of linear systems, introduction to digital signal processing. PREQ 232, MATH 153 COREQ MATH 255

352 Electrical Motors and Controls (3)
A study of AC and DC machines and the circuits that control them. PREQ 232 or IET 370 or permission of instructor

431 Microprocessor Fundamentals (3)
Study of microprocessor fundamentals including integrated circuit architecture, instruction sets, and machine assembly language programming. PREQ 332 2 Lecture, 2 Lab

432 Microprocessor Applications (3)
Continuation of 431 including the study of interfacing of microprocessor and integrated circuits into complex systems. PREQ 431 or equivalent 2 Lecture, 2 Lab

441 Communication Systems (4)
A study of information transmission and modulation systems. Includes both analog and digital techniques used in radio and data communications. PREQ 241, 312 3 Lecture, 2 Lab

452 Control Systems (4)
Fundamental principles of control theory and instrumentation with particular applications in manufacturing processes. PREQ 241, 312, 341 3 Lecture, 2 Lab

478 Senior Design Project Proposal (1)
Research methodology, literature review, and industrial writing styles, culminating in a written report proposal for a senior project. S/U Grading. PREQ Senior standing and permission of instructor

479 Senior Design Project (3)
Organizing, planning, and implementing a project using acceptable industrial techniques culminating in a formal written report and oral presentation. PREQ or COREQ 478 1 Lecture, 4 Lab

493 Special Topics (1-3, R6)
PREQ Permission of instructor
# Elementary Education (EDEL)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>230</td>
<td>Introduction to Teaching (2)</td>
<td>Teaching as a profession, the role and function of the teacher in the school and community, recommended for any student considering teaching as a career</td>
</tr>
<tr>
<td>303</td>
<td>Literature for Children and Youth (3)</td>
<td>Teaching literature in the elementary and middle grades schools, function of literary experiences in the total language arts program  PREQ Admission to the professional education sequence</td>
</tr>
<tr>
<td>310</td>
<td>The Middle School Child and Curriculum (3)</td>
<td>Programs, methods, and materials for students in the middle grades  PREQ Admission to professional education sequence</td>
</tr>
<tr>
<td>312</td>
<td>Elementary School/Methods and Curriculum (3)</td>
<td>Methods, materials, and curriculum for children from kindergarten through grade 6  PREQ Admission to the professional education sequence</td>
</tr>
<tr>
<td>315</td>
<td>Elementary/Middle Grades Communication Skills (3)</td>
<td>Teaching methods, materials, and curriculum development in the language arts, grades K-9  PREQ Admission to the professional education sequence</td>
</tr>
<tr>
<td>316</td>
<td>Elementary/Middle Grades Science (3)</td>
<td>Teaching methods and curricular development in science, grades K-9, materials and teaching strategies  PREQ Admission to the professional education sequence</td>
</tr>
<tr>
<td>317</td>
<td>Elementary/Middle Grades Social Studies (3)</td>
<td>Methods, materials, and strategies for teaching social studies in Grades K-9  PREQ Admission to the professional education sequence</td>
</tr>
<tr>
<td>318</td>
<td>Elementary/Middle Grades Mathematics (3)</td>
<td>The development of mathematical concepts, programs, methods, and materials for Grades K-9  PREQ MATH 231 and admission to the professional education sequence</td>
</tr>
<tr>
<td>390</td>
<td>Practicum I, II (1-2)</td>
<td>Supervised observation and participation in a public school classroom  PREQ Admission to professional education sequence and permission of instructor  One day per week for 390, two days per week for 391</td>
</tr>
<tr>
<td>465</td>
<td>Teaching the Child in Crisis (3)</td>
<td>Exploration of crisis situations to improve teacher competency, methods for dealing with the child in crisis at various developmental levels</td>
</tr>
<tr>
<td>466</td>
<td>Computers in Education (3)</td>
<td>The use of computers in school settings, emphasis on instructional applications, issues, and trends</td>
</tr>
<tr>
<td>467</td>
<td>Adolescent Literature (3)</td>
<td>The reading development and reading interests of adolescents, criteria for evaluation, instructional strategies, study of a wide range of books</td>
</tr>
<tr>
<td>476</td>
<td>Discipline and Classroom Control (2)</td>
<td>Methods, techniques, and theories of classroom control, emphasis on Glasser, Assertive Discipline, TE T, TA , and behavior modification  COREQ 490, 495</td>
</tr>
<tr>
<td>486</td>
<td>Field Experience in Teaching (3, R6)</td>
<td>Supervised experience for a second teaching certification or for an initial certification for individuals who are employed as full-time teachers  9 hours per week</td>
</tr>
<tr>
<td>490</td>
<td>Supervised Student Teaching (9)</td>
<td>A full-time internship under university supervision  COREQ 495</td>
</tr>
<tr>
<td>495</td>
<td>Seminar for Student Teachers (3)</td>
<td>Theory related to practice during student teaching  COREQ 490</td>
</tr>
</tbody>
</table>
Graduate Courses

565 Teaching the Child in Crisis (3) 653 Advanced Children's Literature (3)
566 Computers in Education (3) 664 Kindergarten Administration and Supervision (3)
567 Adolescent Literature (3) 666 Projects in Educational Computing (3)
575 Discipline and Classroom Management (3) 670 Practicum in Elementary Education (1-3)
380 Independent Study (3) 671 Instructional Leadership in Elementary Schools (3)
593 Topics in Elementary Education (3) 675 Workshop in Elementary Education (3)
601 Elementary School Curriculum (3) 680 Independent Study (1-3, R6)
602 Individualizing Instruction (3) 695 Research Seminar in Elementary Education I (3)
603 Elementary Science Curriculum (3) 696 Research Seminar in Elementary Education II (3)
604 Elementary Social Studies Curriculum (3) 697 Research Seminar in Middle Grades Education I (3)
505 Elementary Math Curriculum (3) 698 Research Seminar in Middle Grades Education II

606 Elementary Language Arts Curriculum (3) 701 Seminar in Elementary School Curriculum (3)
607 Mathematical Problem Solving in Elementary/ 714 Programs in Early Childhood Education (3)
609 Middle School (3) 716 Programs for the Intermediate Grades (3)
608 Diagnosis and Remediation in Elementary/Middle 718 Philosophy and Curriculum for Middle Schools (3)
School Math (3) 770 Advanced Practicum (3, R6)
609 Logo for Teachers (3) 782 Research in Elementary Education (3)
614 Issues and Trends in Early Childhood Education (3) 795 Advanced Research Seminar in Elementary
616 Issues and Trends in Intermediate Education (3) Education I (3)
618 Curriculum for Middle Grades Education (3) 796 Advanced Research Seminar in Elementary
620 Philosophy and Mission of Middle Grades Education (3) Education II (3)
622 Teaching-Learning Strategies for the Middle 797 Advanced Research Seminar in Middle Grades
Grades (3) Education I (3)

Emergency Medical Care (EMC)

340 Fundamentals of Advanced Life Support (3)
The role and responsibilities of the paramedic, basic medical terminology, patient assessment, including history taking and physical examination techniques  PREQ EMC major or permission of program director  2 Lecture, 2 Lab

350 Cardiology (3)
Electrocardiography, interpretation and treatment of cardiac arrhythmias, pathophysiology, assessment, and treatment of cardiac emergencies  PREQ 340 or permission of instructor

360 Acute Respiratory and Fluid Disorders (3)
Pathophysiology, assessment and treatment of respiratory emergencies, fluid and electrolyte balance and imbalance, manifestations of shock, techniques of IV therapy, MAST, EOA, and endotracheal intubation  PREQ 340, HSCC 370  2 Lecture, 2 Lab

370 Medical Emergencies (3)
Assessment and management of central nervous system disorders, diabetic emergencies, exposure to environmental extremes, substance abuse, poisoning, acute abdomen and genito-urinary problems  PREQ 340 and HSCC 370 or permission of program director

382 Clinical Practicum I (1)
Experience to develop patient assessment skills  PREQ 340 or permission of program director  4 Lab

389 Cooperative Education in EMC (1 or 3, R12)
PREQ HSCC 389  See Cooperative Education Program

410 Trauma Management (3)
Assessment and management of traumatic emergencies, including patient access, stabilization, and transport, radio communications and use of ALS protocols  PREQ 360  2 Lecture, 3 Lab

420 Maternal and Child Emergency Care (3)
Obstetrical, gynecological, and pediatric emergencies  PREQ 340 and HSCC 370 or permission of program director

430 Special Needs Patients (2)
Assessment and emergency care of the elderly and handicapped  PREQ 360 or permission of program director
452 Advanced Cardiac Life Support (1)
The American Heart Association course leading to certification in advanced cardiac life support. 
PREQ 483 or permission of program director.

482 Independent Study in Emergency Medical Care (2)
PREQ Permission of instructor.

483 Clinical Practicum II (4)
Experience to develop clinical competency in advanced life support assessment and skills. 
PREQ 350, 360, 370, 122 Lab.

484 Clinical Practicum III (3)
Advanced clinical rotations in a hospital setting. 
PREQ 410, 420, 483, PSY 460 9 Lab.

485 MICU Practicum (3)
Supervised field experience on mobile intensive care units. 
PREQ 410, 420, 483 9 Lab.

487 Advanced MICU Practicum (2, R8)
Supervised field experience on mobile intensive care units to review, update, and maintain skills. 
PREQ 485 or current paramedic certification, permission of program director 8 Field.

488 EMC Management Internship (2, R4)
Supervised management experience with an approved emergency medical service provider or regulator. 
PREQ EMC major and permission of program director 5 weeks, full time.

496 Emergency Medical Care Seminar (1)
Trends and issues in emergency medical services.

English (ENGL)

100 Basic Writing Skills (3)
Students with insufficient preparation in English as determined by placement scores must pass this course before enrolling in 101. Credit earned in this course will not count toward 128 hours required for graduation.

101 Composition I (3)
Assigned readings, writing exercises emphasizing organization and development of formal compositions. 
PREQ Satisfactory placement score or pass ENGL 100 (F1).

102 Composition II (3)
Writing exercises based on the critical analysis of literary selections and other appropriate models, techniques of library research and documentation. 
PREQ 101 (F1).

Note ENGL 101 and 102 must be taken and passed in sequence. These courses are prerequisites to all courses in English above the freshman level.

130 Intensive English I, II, III, IV (3, 3, 3, 3)
131 Speaking, listening, reading, writing, and grammar for non-native speakers, study of American culture. 
132 130-131 or 132-133 may be scheduled concurrently during a regular semester. 
PREQ Permission of instructor 2 Lecture, 2 Lab, 2 Drill.

136 Basic English for Non-Native Speakers (3)
Composition, reading, listening, and speaking for non-native speakers. 
PREQ English placement test.

201 Literary Landmarks in Western Culture (3)
Systematic study of the human attitudes of classicism, romanticism, and realism, their causes, effects, and expression in Western culture as reflected in major literary works (P5).
203 Major American Writers (3)
Selections from the works of Franklin, Poe, Thoreau, Melville, Hawthorne, Whitman, Dickinson, Twain, Fitzgerald, Frost, Hemingway, Faulkner, and others (P3a)

204 Cultures in Contact and Collision (3)
Examination of what happens when differing cultures meet or converge as reflected in literature, written and on film, literature as a key to better understanding of cultures differing markedly from our own (P4)

251 Survey of English Literature I (3)
Major periods of English literature from the beginnings through the 18th century, emphasizing backgrounds and styles characteristic of each period

252 Survey of English Literature II (3)
Major periods of English literature from the 19th-century through the present, emphasizing backgrounds and styles characteristic of each period

300 Foundation Composition (3)
Required of transfer students who fail the English Proficiency Examination and of any undergraduate who receives two Composition Condition marks

303 Introduction to Writing and Editing (3)
Survey of career opportunities, professional practices, technical devices in fiction and nonfiction, preparation of manuscripts, copyright law

305 Technical Writing (3)
Organizing and writing technical instructions, specifications, definitions, descriptions, written analysis of data, summaries, and processes

306 Nonfiction Writing (3)
Study and practice of technique and form in nonfiction writing, emphasis on magazine articles, interviews, profiles, reviews, and longer prose pieces, analysis of nonfiction markets and professional practices PREQ 303 or permission of instructor

307 Editing and Publishing Practices (3)
Survey of customary practices, copy editing, layout, printing, and other processes in magazine and book production

308 Fiction Writing (3, R6)
Study and practice of technique and form in fiction writing, workshop discussion of students' stories and assigned exercises, original work and revision PREQ 303 or permission of instructor

309 Poetry Writing (3, R6)
Study and practice of technique and form in poetry writing, emphasizing traditional as well as free verse, analysis of contemporary poetry, students' poetry read for class criticism PREQ 303 or permission of instructor

311 History of the English Language (3)
Origins and development of the English language from the beginnings to the present

312 Grammar for Writing (3)
Standard written American English as dictated by current editorial practice

314 Methods for Teaching English (3)
Methods, materials, curriculum, and trends in teaching in the secondary schools PREQ Admission to the teacher-education program

330 Introduction to Literary Interpretation (3)
Application of major critical approaches to the study of fiction, poetry, and drama

333 Introduction to Shakespeare (3)
General survey of Shakespeare's life, times, and most popular plays, not applicable to English majors
361 Survey of American Literature I (3)
   A survey of American literature from the beginnings through the Romantics

362 Survey of American Literature II (3)
   A survey of American literature from the early Realists to the present

370 The Short Story (3)
   History and development of the short story in Western literature

389 Cooperative Education Writing/Editing (1 or 3, R15)
   PREQ 303 See Cooperative Education Program

401 Writing for the Professions (3)
   Study and practice of technique and form in writing for business, industry, and the
   professions, organizing, drafting, and revising writing of all lengths

405 Advanced Creative Writing (3)
   Intensive study and practice of creative writing, emphasis on required individual
   projects PREQ Satisfactory writing sample and permission of instructor

412 Modern English Structure (3)
   Application of linguistics to the study of English, comparison of approaches to the study
   of grammar

414 Fundamentals of Teaching Composition (3)
   Contrastive analysis of teaching approaches the process, rhetorical, and linguistic/
   stylistic approaches

415 Linguistics (3)
   The world's languages, their sound systems, word systems, and sentence patterns,
   relationships to culture and the mind PREQ Permission of instructor

416 Teaching English as a Second Language (3)
   Current trends and strategies, measuring proficiency and progress, adapting instruc-
   tional materials in content areas, aspects of American culture and language that affect
   language learning PREQ 415 or permission of instructor

420 Chaucer and His Age (3)
   Chaucer's major poetry, emphasis on Troilus and Criseyde and The Canterbury Tales,
   selected readings from the works of contemporaries

421 Fairy Tale Literature (3)
   The genre of the fairy tale its structure and theme, its influence on children's
   literature as well as mainstream literature PREQ Junior or senior standing

430 English Literature of the Renaissance (3)
   Representative Tudor and Jacobean prose and nondramatic poetry

431 Shakespeare and His Age (3)

440 Milton and His Age (3)
   Milton's major poems, selections from his prose, readings from works of contem-
   poraries

441 The Age of Pope, Swift, and Johnson (3)
   Selections from the works of Pope, Swift, Johnson, and their contemporaries

450 Major British Writers (3, R9)
   Selected works of one or more important authors from a single historic period
451 Nineteenth-Century British Writers (3)
The poetry and fiction of the major Romantic and Victorian authors, including Wordsworth, Coleridge, Keats, Shelley, Tennyson, Browning, Arnold, and Dickens

455 The English Novel (3)
Selected 18th-and 19th-century novels of such writers as Defoe, Richardson, Fielding, Smollet, Austen, Scott, Dickens, Thackeray, and Hardy

463 American Literature Since 1945 (3)
Post-World War II American literature and its influences from other nationalities, especially those of Latin America and Canada. Such writers as Barth, Barthelme, Garcia Marquez, Sexton, and Walcott, among others, will be considered. Juniors will be allowed to enroll.

470 Twentieth Century Commonwealth Literature (3)
Poetry, fiction, and drama from the most prominent writers in those countries in which English is a common medium for literature

471 Modern Poetry (3)

472 Modern Fiction (3)

473 Modern Drama (3)

475 The American Novel (3)
Selected novels of major American writers

477 Literature and Gender (3)
Study of literature by or about women, the relationship of men and women in literature, feminist issues from a literary perspective. PREQ: Senior standing

478 Film as Literature (3, R9)
Study of film from selected times and of selected types, special attention to literary features, such as theme, plot, and characterization, and to cinematic features

479 Studies in British and American Literature (3, R6)

480 Studies in English (1-3, R6)
Independent study/directed research in English. PREQ: Permission of instructor and department head

483 Writing Internship (3, 3, 3)
Practical experience in a writing-related setting. S/U grading. PREQ: 303, 9 hours per week per course

484 Practical Internship (3, 3, 3)

493 Topics in Creative Writing (1-3, R6)
Study and practice of writing in a special area, e.g., the novel, drama, science fiction, juvenile literature. PREQ: 303 or permission of instructor

494 Special Topics in ESL (3, R6)

496 Seminar in Comparative Literature (3)
Literary classics in translation

497 Senior Seminar in Writing (3)
Capstone course for the writing/editing concentration. PREQ: Senior standing

498 Senior Seminar in Literature (3)
Capstone course for the literature concentration. PREQ: Senior standing
Graduate Courses

501 Writing for the Professions (3) 577 Literature and Gender (3)
505 Advanced Creative Writing (3) 580 Studies in English (1-3, R6)
512 Modern English Structure (3) 589 Cooperative Education Writing & Editing (3, R6)
514 Fundamentals of Teaching Composition (3) 593 Topics in Creative Writing (1-3, R6)
515 Linguistics (3) 594 Special Topics in ESL (3; R6)
516 Teaching English as a Second Language (3) 611 Writing Seminar for Teachers (3, R6)
518 Literary Research and Bibliography (3) 621 English Literature to 1500 Exclusive of Chaucer (3)
520 Chaucer and His Age (3) 631 Shakespeare (3)
521 Fairy Tale Literature (3) 640 English Literature of the Enlightenment (3)
530 English Literature of the Renaissance (3) 651 The Major Romantics (3)
531 Shakespeare and His Age (3) 661 American Literature of the Romantic Period (3)
540 Milton and His Age (3) 662 American Literature Since 1855 (3)
541 The Age of Pope, Swift and Johnson (3) 691 Topics in English Linguistics (3, R6)
550 Major British Writers (3, R9) 692 Studies in Renaissance Literature (3)
551 Nineteenth Century British Writers (3) 693 Topics in Literary Criticism (3, R6)
555 The English Novel (3) 694 Topics in 17th-and 18th-Century Literature (3, R6)
563 American Literature Since 1945 (3) 695 Studies in 19th-Century British Literature (3, R6)
570 Twentieth Century Commonwealth Literature (3) 696 Topics in American Literature (3, R6)
571 Modern Poetry (3) 697 Topics in Modern British/American Literature (3, R6)
572 Modern Fiction (3) 698 Studies in Rhetoric (1-3, R6)
573 Modern Drama (3) 699 Thesis (3, R6)
575 The American Novel (3)

Environmental Health (HSEH)

230 Introduction to Environmental Health (3)
Survey of the concept of community health as related to man’s environment and the role of the environmental health specialist

310 Water Supply and Waste Water Treatment (4)
Sanitary techniques for collection, disposal, and management of water wastes, source, chemical, and bacteriological quality  PREQ Environmental health major 3 Lecture, 2 Lab

312 Solid Waste Management (2)
Sanitary techniques for management, collection, and disposal of solid wastes  PREQ Environmental health major

320 Shelter Environment (4)
Environmental and health concerns related to shelter, individual and mass units, generalized approach to construction, sanitation, energy control, and other facets  PREQ Environmental health major 3 Lecture, 2 Lab

330 Food and Milk Control (4)
Food-borne disease and regulation programs relative to sanitary inspection and control of food service and processing systems  3 Lecture, 2 Lab

375 Environmental Toxicology (3)
The monitoring, effects, and control of toxic materials in the environment  Mechanisms of action of toxic chemicals in humans and other organisms, including food chain bioaccumulation and the use of bioassays to develop regulations, biomedical aspects of toxins including carcinogenesis, teratogenesis, and toxic effects of heavy metals  PREQ 230, CHEM 135, 136, 133 or consent of instructor

386 Field Practicum in Environmental Health (3)
Experience in an area studied during the junior year, written report required  PREQ Environmental health major  9 weeks, full-time

389 Cooperative Education in Environmental Health (1 or 3, R12)
PREQ HSCC 389  See Cooperative Education Program

430 Medical and Veterinary Entomology (4)
Vectors responsible for arthropod-borne diseases of medical and veterinary importance  PREQ Permission of instructor  2 Lecture, 4 Lab
Air Quality Control (4)
Evaluating and monitoring air quality, effects of pollution control and lab procedures in air quality investigation  
PREQ: Environmental health major  
3 Lecture, 2 Lab

Institutional Sanitation (3)
Institutional sanitation systems, construction and design concepts, monitoring, and operation  
PREQ: Environmental health major or permission of instructor

Recreational Sanitation (3)
Sanitation problems in recreational facilities, emphasis on swimming pool operation and other outdoor areas  
PREQ: Environmental health major or permission of instructor

Industrial Hygiene (3)
Health aspects of industry relative to the environmental factors of shelter, waste, and air  
PREQ: Environmental health major or permission of instructor

Occupational Health (3)
Health problems in business and industrial environments, occupational disease and accident prevention  
PREQ: Environmental health major or permission of instructor

Environmental Health Problems (1)
Review of problems, their sources, and effects  
PREQ: Permission of instructor  
2 Lecture

Principles of Epidemiology (3)
Principles and applications to investigation, control, and prevention of disease  
PREQ: Environmental health major or permission of instructor

Environmental Program Administration (3)
Intensive study of regulatory program administration, focus on development, implementation, and evaluation of programs in the governmental sector

Independent Study in Environmental Health (1-2, R4)

Environmental Health Internship (3)
Supervised experience in an approved clinical or environmental health facility  
PREQ: Environmental health major or permission of instructor  
9 weeks, full-time

Finance (FIN)

Security Analysis (3)
Evaluation of company fundamentals, technical analysis of the stock market, interpretation and utilization of charts, bonds, and mortgage-backed securities  
PREQ: ACCT 252 and ECON 232

Real Estate (3)
Financing, sources of funds, loan contracts, mortgage analysis, role of government, real estate law

Financial Management (3)
Financial analysis and planning, capital management and budgeting, acquisition of funds, dividend policy  
PREQ: ACCT 161 or 252, ECON 231, 232

Futures and Options Markets (3)
Evolution, operation, and uses of futures and options markets, analysis of commodity, financial, foreign exchange, and stock index futures and options  
PREQ: ECON 231, 232
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
</table>
| 335         | Commercial Banking and Financial Institutions (3) | Firms in the financial service industry, their organizations and functions  
PREQ 305                                                                                           |
| 389         | Cooperative Education in Finance (1 or 3, R15)   | PREQ 2.0 GPA on courses in business See Cooperative Education Program                                                                                                                                      |
| 400         | Insurance Planning (3)                          | Principles of risk bearing and risk analysis, economics of risk and insurance  
PREQ 305                                                                                           |
| 401         | Life Insurance (3)                              | Functions and uses of life insurance, contract analysis, legal aspects, group policies                                                                                                                     |
| 403         | Real Estate Brokerage and Finance (3)            | Law of agency, theories of value, real estate finance  
PREQ 302                                                                                           |
| 405         | Corporate Financial Decisions (3)                | Sources and forms of long-term financing, financial structure, dividend policy, timing of financial policy, mergers, and failure  
PREQ 305  
COREQ ACCT 301                                                                                      |
| 406         | Investment Strategies (3)                       | Investments for individuals, institutions, and business, securities and securities markets  
PREQ 305                                                                                           |
| 407         | Multinational Business and Finance (3)           | Country risk, financing foreign trade, currencies, foreign exchange markets and controls, rates of exchange, investment and lending  
PREQ 305                                                                                           |
| 409         | Entrepreneurial Finance (3)                      | Problems in cash management, financing small business, problems associated with new ventures  
PREQ 305  
MGT 401                                                                                           |
| 480         | Independent Research (3)                        | PREQ  Permission of department head                                                                                                                                        |
| 493         | Topics in Finance (1-3, R6)                      | PREQ  Permission of department head                                                                                                                                        |
| 495         | Seminar in Financial Management (3)              | Analysis of problems in business finance using the case method  
PREQ 305  
COREQ ACCT 301 and FIN 405, or permission of instructor                                                                                          |
| 496         | Seminar in Financial Planning (3)                | Integration of alternative investment instruments and opportunities, tax planning and strategies, retirement and estate planning, with computer software applications  
PREQ 305 and 406                                                                                   |
| 601         | Financial Management (3)                        |                                                                                              |
| 602         | Investment Analysis and Portfolio Management (3)  |                                                                                              |
| 603         | Advanced Financial Analysis (3)                 |                                                                                              |
| 604         | Financial Management (3)                        |                                                                                              |
| 605         | Investment Analysis and Portfolio Management (3)  |                                                                                              |
| 606         | Advanced Financial Analysis (3)                 |                                                                                              |
| 682         | Research Project in Finance (3, R6)              |                                                                                              |
| 693         | Topics in Finance (3, R6)                        |                                                                                              |

### Food Service Management (FSM)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>130</td>
<td>Introduction to the Hospitality Industry (2)</td>
<td>Survey of management specialties in the industry, emphasis on food systems administration, current trends and problems</td>
</tr>
</tbody>
</table>

### Graduate Courses

- Financial Management (3)
- Investment Analysis and Portfolio Management (3)
- Advanced Financial Analysis (3)
- Financial Management (3)
- Research Project in Finance (3, R6)
- Topics in Finance (3, R6)
- Topics in Finance (3, R6)
333 Quantity Foods (3)
Methods of quantity food production, planning, purchasing, storing, preparing, and serving foods
PREQ Permission of instructor 2 Lecture, 3 Lab

389 Cooperative Education in FSM (1 or 3, R15) See Cooperative Education Program

430 Food Systems Management I (3)
Functions of management applied to food service systems, emphasis on food service equipment, layout and design, menu development, procurement, and production management
PREQ 333, COREQ MGT 300

432 Food Systems Management II (3)
Functions of management applied to food service systems, emphasis on planning, marketing, personnel, cost control, and computer applications
PREQ 430

480 Independent Study in Food Service Management (1-3, R6)
PREQ Permission of instructor

483 Internship (3, 3, 3)

484 Integration of theory and practice in a setting appropriate to the student's career field

485 S/U grading
PREQ Permission of instructor 9 hours per week per course

Graduate Courses
532 Food Systems Management II (3)

Forestry (FOR)

131 Introduction to Forest Resources (3)
The profession of forestry, its scope and opportunities, forest resource conservation and utilization, field exercises in forestry practices
PREQ Preforestry major

French (FREN)

101 French Language and Culture (3)
Elements of understanding, speaking, reading, and writing French, concepts of grammar, lab practice required (P3a)

105 The French-Speaking World (3)
Study of French culture and its relationship to the cultures of countries and regions where French is spoken (P4)

110 Intensive French I (6)
Developing skills in understanding, speaking, reading, and writing, emphasis on oral aspects, Rassias Method
Three hours credit only applicable to general education
PREQ Permission of instructor 4 Lecture, 3 Lab, 5 Drill (P3a)

132 Elementary French (3)
PREQ Placement or permission of department head

133 French for Travelers (2)
A practical guide to travel in French-speaking countries, basic conversational French, tourist information, and travel facts

231 Intermediate French I, II (3, 3)
Continuation of written and oral French grammar, readings and discussions on French culture and civilization, readings in more specialized areas, lab practice may be assigned
PREQ 132 or equivalent or placement for 231, 231 or equivalent or placement for 232
240 Intensive French II (6)
Continuation of 110, increased emphasis on reading and writing  
PREQ Permission of instructor  
4 Lecture, 5 Lab, 5 Drill

301 French Composition (3)
PREQ 232 or equivalent or placement

302 Conversational French (3)
Advanced intermediate course emphasizing topical dialogue  
PREQ 232 or equivalent or placement

303 Applied French Conversation (3, R6)
Apprenticeship in the intensive language program  
PREQ 232 or 240, sophomore standing, selection by faculty  
10 Lab

304 Commercial French I, II (3, 3)
305 Review of vocabulary and styles used in French business letters, various aspects of French business institutions  
PREQ 232 or 240

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K-12  
PREQ Admission to professional sequence or permission of instructor

321 French Civilization I, II (3, 3)
322 Geographical, political, cultural, and historical aspects of France from its origins to the present, course division at French Revolution  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

331 Survey of French Literature I, II (3, 3)
332 The main literary movements, authors, and works since the 12th century, course division at the 18th-century  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

335 Introduction to French Prose and Poetry (3)
Introduction to French literary texts, reading and analysis of literary works  
PREQ 232 or 240

351 French Phonetics and General Linguistics (3)
The French sound system, drill in pronunciation, articulation, intonation, and rhythm, introduction to linguistics  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

371 Twentieth Century French Novels in Translation (3)
Selected works by Proust, Gide, Mauriac, Camus, Saint-Exupery, and Colette  
No knowledge of French required, not open to French majors

389 Cooperative Education in French (1 or 3, R15)
PREQ 301, 302  
See Cooperative Education Program

393 Special Topics in French (1-3, R6)
PREQ 232 or 240

431 Studies in French Literature (3, R6)
Intensive study of an author or authors, a genre, movement, school, or literary period  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

451 Advanced French Grammar (3)
Comprehensive study of the more difficult grammatical forms and usages  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head
452 Advanced French Conversation (3)
Discussion of selected topics, oral reports on assigned readings, situational dialogues
emphasizing practical, everyday French. PREQ 232 or 240. PREQ or COREQ 301
and 302 or permission of department head.

481 Independent Studies in French (1-3, R6)
PREQ 232 or 240. PREQ or COREQ 301 and 302 or permission of department head.

Geography (GEOG)

102 World Regional Geography (3)
Major world regions and global problems, techniques of thinking geographically about
human behavior. (P4)

103 Cultural Geography (3)
Interrelations of man, earth, and culture, the geography of race, language, religion,
political and economic patterns, population growth and movements. (P4)

150 Environmental Geography (3)
Survey of man's physical habitat, including weather and climate, soils, vegetation, and
landforms, emphasis on phenomena that most influence man.

300 Weather and Climate (4)
Meteorology (temperature, humidity, pressure, precipitation, winds, radiation), global
heat budget, CO₂ cycle, jet stream, air masses, fronts, storms, global distribution of
climate. PREQ 150. 3 Lecture, 2 Lab.

302 (GEOL 302) Geomorphology (4)
Classification, description, origin, and development of landforms, relationships to
underlying structures and climates. PREQ 150 and GEOL 150. 3 Lecture, 2 Lab, field
trip.

305 (GEOL 305) Soils and Hydrology (4)

320 Map Interpretation (3)
Map analysis, topographic quadrangles, uses for navigation, geology, land-use plan-
ing, soil and vegetation studies, and aerial photos, history of maps. 1 Lecture, 4 Lab.

322 Cartography (4)
Map design and construction, basic projects, data gathering, and display methods.
PREQ Permission of instructor. 2 Lecture, 6 Lab.

324 Introduction to Remote Sensing (4)
Interpretation and applications of remote sensing, satellite and aerial imagery, elemen-
tary photography, stereo views, and photomapping. PREQ 150 or permission of
instructor, GEOL 105 desirable. 3 Lecture, 2 Lab.

326 Research Methods in Geography (3)
Methods of measurement, observation, recording, analysis, and synthesis of data, field
and lab photography, computer statistical packages, library research. PREQ MATH
170, 171, and permission of instructor. 1 Lecture, 4 Lab.

350 Economic Geography (3)
Principles governing world distribution and production of economic and natural
resources.

389 Cooperative Education in Geography (1 or 3, R15)
See Cooperative Education Program.

400 Natural Regions of North America (3)
Regions of the United States and Canada, landforms, geology, climates, soils, vegeta-
tion, water, emphasis on features most affecting man. PREQ 150 or GEOL 150.
Conservation of Natural Resources (3)
Quantity, quality, and distribution of resources in the United States, dilemma of increasing demand on a dwindling resource base

Advanced Remote Sensing (3)
Interpretation and application of remotely sensed data on the earth's physical and cultural environments, major project required  PREQ Permission of instructor 6 Lab

Topics in Regional Geography (3, R12)
Physical, economic, and social aspects of the geography of a selected region (Asia, Europe, USSR, Africa, North America, Middle East, Latin America)

Political Geography (3)
Territorial and cultural elements in the formation of national and international boundaries, case studies

Urban and Regional Land Use Planning (3)
Principles and practices of urban-regional planning, types of planning reports, applications to North Carolina  PREQ Permission of instructor

Introduction to Urban Geography (3)
Study of the spatial structure and function of urban places, theories of city origin and growth

Industrial Location and Community Development (3)
Measures of manufacturing, location theory, decision-making factors in the location of industry, community development planning practices  PREQ 350 or permission of instructor

Internship in Geography (3, 3, 3)
Practical application of academic training in an approved agency under faculty supervision  S/U grading  PREQ Junior standing  9 hours per week per course

Topics in Geography (1-3, R6)
Presentation and discussion of subjects of current interest  PREQ Permission of instructor

Special Problems (1-3, R6)
Directed individual research on selected topics  PREQ Permission of instructor

Geology (GEOL)

Earth and Man (3-4)
Physical processes of the earth, their effects on man and his attempts to control and use the earth  3 Lecture, 2 Discussion/demonstration (optional)  (P2)

Introduction to Physical Geology (4)
Earth structure, composition and evolution of landscape, minerals and rocks, active processes, effects of wind, water, and ice, for science majors  3 Lecture, 2 Lab

Introduction to Historical Geology (4)
Major events and changes in life forms in North American geological history, fossils, ancient environments, and geologic interpretation  3 Lecture, 2 Lab

Rocks and Minerals (2)
Hand specimen examination and description of common rocks and minerals, classification and identification systems, for non-majors  PREQ 150  1 Lecture, 2 Lab
252 Mineralogy (4)
Principles of crystallography, crystal chemistry, and phase relationships, chemical computations, descriptive and determinative mineralogy  PREQ  CHEM 135 or permission of instructor  2 Lecture, 4 Lab

302 (GEOG 302) Geomorphology (4)

305 (GEOG 305) Soils and Hydrology (4)
Soil genesis, properties, and classification, the hydrologic cycle, surface runoff and groundwater, water budgets and water quality, management of soils and water  PREQ Permission of instructor  3 Lecture, 2 Lab

331 Introduction to Paleontology (4)
Distribution, morphology, evolutionary trends, and classification of fossils  PREQ 150 or GEOG 150 or permission of instructor  3 Lecture, 2 Lab, field trip

351 Optical Mineralogy and Petrography (3)
Principles and methods of optical crystallography, identification of nonopaque minerals in immersion oils and thin section, description of rock in thin sections  PREQ 252 or permission of instructor  1 Lecture, 4 Lab

352 Igneous and Metamorphic Petrology (4)
Rock petrogenesis, classifications, and associations, phase equilibria and mineral assemblages under various temperature-pressure conditions, thin section analyses  PREQ 351 and CHEM 136  3 Lecture, 2 Lab, field work

360 Oceanography (3)
Chemistry of the oceans, wave action and erosion, geology of ocean basins, currents and climates, marine resources and their management

361 Environmental Geology (3)
Changes in the geologic environment caused by man, principles of geologic land-use planning, population statistics and resource consumption  PREQ 150 or GEOG 150

371 Structural Geology (3)
Descriptive structural geology, emphasis on outcrop and regional scale deformational features, use of maps and graphic techniques in structural analysis  PREQ 150  2 Lecture, 2 Lab, field trips

389 Cooperative Education in Geology (1 or 3, R15)
See Cooperative Education Program

420 Sedimentation (3)
The origin, properties, and classification of sediments and sedimentary rocks  PREQ 150  PREQ or COREQ 252 or permission of instructor  2 Lecture, 2 Lab

421 Stratigraphy (3)
Environments of sedimentary deposition and relationships in time and space  PREQ 420 or permission of instructor  COREQ 252  2 Lecture, 2 Lab, field trip

441 Economic Mineral Resources (3)
Formation of and exploration for economic mineral deposits, technologic, economic, and political aspects of exploitation, distribution of production and reserves  PREQ 251 or permission of instructor

442 The Geology of Oil and Water (3)
Origin, migration, and accumulation of fluids in rocks, mapping and evaluating deposits  PREQ One geology course  2 Lecture, 2 Lab

451 Analytical Methods in Geology (3)
Techniques used for the preparation of mineral and rock specimens for chemical analyses and/or instrumentation for field collection of data  PREQ  Permission of instructor  1 Lecture, 4 Lab
471 Tectonics (3)
History and development of tectonic concepts, geometry and kinematics of plate
mosaic, evolution of modern and ancient orogenic belts  PREQ 352, 371, or permis-
sion of instructor  2 Lecture, 2 Lab, field trips

491 Topics in Geology (1-3, R6)
PREQ  Junior standing, permission of instructor

493 Special Problems in Geology (2, R4)
Supervised research, written and oral reports

Graduate Courses
541 Economic Mineral Resources (3) 601 Earth Sciences (3, 3)
551 Analytical Methods in Geology (3) 602
591 Topics in Geology (1-3, R6) 693 Topics in Geology (1-3, R6)
593 Special Problems in Geology (2, R4)

German (GER)

101 German Language and Culture (3)
Elements of understanding, speaking, reading, and writing German, grammatical
concepts, lab practice required  (P3a)

110 Intensive German I (6)
Developing skills in understanding, speaking, reading, and writing, emphasis on oral
aspects, Rassias Method  Three hours credit only applicable to general education  4
Lecture, 3 Lab, 5 Drill  PREQ  Permission of instructor  (P3a)

132 Elementary German (3)
PREQ  Placement or permission of department head

204 A Literary Perspective of German Civilization (3)
Selected German literary masterpieces as a reflection of German civilization  PREQ
ENGL 102  (P5)

231 Intermediate German I, II (3, 3)
232 Continuation of written and oral German grammar, readings and discussions on German
culture and civilization, readings in more specialized areas, lab practice may be as-
signed  PREQ  132 or equivalent or placement for 231, 231 or equivalent or place-
ment for 232

240 Intensive German II (6)
Continuation of 110, increased emphasis on reading and writing  4 Lecture, 5 Lab, 5
Drill  PREQ  Permission of instructor

301 German Composition (3)
PREQ  232 or equivalent or placement

302 Conversational German (3)
Advanced intermediate course emphasizing topical dialogue  PREQ  232 or equivalent
or placement

303 Applied German Conversation (3, R6)
Apprenticeship in the intensive language program  PREQ  232 or 240, sophomore
standing, selection by faculty  10 Lab

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K-12  PREQ  Admis-
sion to professional sequence or permission of instructor

321 German Civilization I, II (3, 3)
322 Geographical, political, cultural, and historical aspects of Germany, course division at
the 19th century  PREQ  232 or 240  PREQ or COREQ 301 and 302 or permission
of department head
331 Survey of German Literature I, II (3, 3)
Major literary movements, authors, and works since the 12th century, course division at the 19th century  
PREQ 232 or 240  
COREQ 301 and 302 or permission of department head

332 Major literary movements, authors, and works since the 12th century, course division at the 19th century  
PREQ 232 or 240  
COREQ 301 and 302 or permission of department head

335 Introduction to German Prose and Poetry (3)  
Introduction to German literary texts, reading and analysis of literary works  
PREQ 232 or 240

351 German Phonetics and General Linguistics (3)  
Analysis of the German sound system, intensive drill in pronunciation, articulation, intonation, and rhythm, introduction to linguistics  
PREQ 232 or 240  
COREQ 301 and 302 or permission of department head

389 Cooperative Education in German (1 or 3, R15)  
PREQ 301, 302  
See Cooperative Education Program

393 Special Topics in German (1-3, R6)  
PREQ 232 or 240

431 Studies in German Literature (3, R6)  
Intensive study of an author or authors, genre, literary movement, school, or literary period  
PREQ 232 or 240  
COREQ 301 and 302 or permission of department head

451 Advanced German Grammar (3)  
Comprehensive study of the more difficult grammatical forms and usages  
PREQ 232 or 240  
COREQ 301 and 302 or permission of department head

452 Advanced German Conversation (3)  
Discussion of selected topics, oral reports on assigned reading, situational dialogues emphasizing practical, everyday German  
PREQ 232 or 240  
COREQ 301 and 302 or permission of department head

481 Independent Studies in German (1-3, R6)  
PREQ 232 or 240  
COREQ 301 and 302 or permission of department head

Health Education (HEAL)

120 Personal and Community Health (2)  
Philosophy, knowledge, practices of health, coping with problems of living  
(F5)

250 First Aid and Safety Education (2)  
Prevention and care of accidents and injuries, including American Red Cross training courses

300 Health Education for Elementary Teachers (2)  
Directing a progressive sequential school health program, screening for problems, healthful school living, health services and instruction, development of a curriculum project

305 Current Health Problems (3)  
Incidence, diagnosis, treatment, rehabilitation, and prevention of leading community health problems, addictions, individual, family, and community effects, positive mental health as a deterrent

311 (PE 311) Measurement and Evaluation (2)  
Study and use of methods of testing, measuring, and evaluating health status, statistical analysis of data
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description and Prerequisites</th>
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<tbody>
<tr>
<td>312</td>
<td>Comprehensive Health Education (3)</td>
<td>Comprehensive health education including a philosophy and strategies for teaching comprehensive health education, and study of selected topics related to personal and community health problems. PREQ: Junior standing.</td>
</tr>
<tr>
<td>313</td>
<td>Community Health and Field Experience (4)</td>
<td>Home and community health requirements, governmental and voluntary community health agencies, practicum. Lecture: 4, Lab: 1.</td>
</tr>
<tr>
<td>350</td>
<td>First Aid Education (2)</td>
<td>Care of injuries, prevention of accidents, standard first-aid and CPR training. Not open to students with credit in 250.</td>
</tr>
<tr>
<td>360</td>
<td>Sexually Transmitted Diseases (2) (Formerly HEAL 260)</td>
<td>Factual information of sexual anatomy and functioning, concepts of sexually transmitted diseases and AIDS, and how decisions, behaviors and lifestyles may affect our health. Lecture: 2.</td>
</tr>
<tr>
<td>410</td>
<td>Organization of Health Education (3)</td>
<td>Program planning, fiscal management, vital statistics, and laws pertaining to community health.</td>
</tr>
<tr>
<td>412</td>
<td>Seminar (2)</td>
<td>Current health teaching methods.</td>
</tr>
<tr>
<td>492</td>
<td>Practicum in Community Health Education (3)</td>
<td>Directed observation and supervised experience in a public health project under direction of public health officials and faculty. 35 hours per week. COREQ: 412 and EDSE 490.</td>
</tr>
</tbody>
</table>

**Health Information Management (HIM)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description and Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Introduction to Health Information Management (3)</td>
<td>Orientation to medical institutions, history of medical records, components, development, and use of health information, functions of health information departments.</td>
</tr>
<tr>
<td>303</td>
<td>Planning and Organizing in Health Information Management (2)</td>
<td>Applications of principles of planning and organizing in the management of health information services. PREQ: 301, COREQ: 321.</td>
</tr>
<tr>
<td>321</td>
<td>Health Information Management Practice Lab (1)</td>
<td>Health information computer applications and introduction to acute-care facility health information services through limited clinical practice. COREQ: 303, 3 Lab.</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Health Information Management (1 or 3, R12)</td>
<td>See Cooperative Education Program.</td>
</tr>
<tr>
<td>401</td>
<td>Regulation of Health Care Facilities (3)</td>
<td>Accreditation and regulation of healthcare facilities, continuous quality improvement, utilization management, DRGs, medical staff organization. COREQ: 404.</td>
</tr>
<tr>
<td>402</td>
<td>Controlling Resources in Health Information Management (3)</td>
<td>Application of principles of productivity and controlling financial resources in the management of health information services. PREQ: 303.</td>
</tr>
</tbody>
</table>
403 Health Data Collection (2)
Computing, reporting, and displaying healthcare statistics Principles of applied research for the health information management profession  COREQ 404

404 Health Information Classification Systems I (4)
Basic ICD-9-CM coding for inpatients and outpatients, coding for prospective payment  PREQ 301, 310  COREQ 401 3 Lecture, 3 Lab

405 Health Information Classification Systems II (3)
Basic CPT-4 coding for ambulatory patients Advanced ICD-9-CM coding for prospective payment  PREQ 404 2 Lecture, 3 Lab

406 Topics in Health Information Management (4)
Various current topics in HIM projects in in-service education, data quality and records in non-acute care facilities  3 Lecture, 3 Lab

483 Clinical Practicum I (1)
Supervised practical application in an acute-care facility of previously studied theory related to basic functions of the acute care facility's health information department Emphasis on the development of skills related to the performance of technical procedures  PREQ 301 60 clinical practice hours

484 Clinical Practicum II (2)
Supervised practical application in an acute-care facility of previously studied theory related to JCAHO, medical staff, quality and utilization management activities, computer applications, DRG's, ICD-9-CM coding, budgeting and healthcare statistics  COREQ 401, 402, 403, 404, 483 120 clinical practice hours

485 Clinical Practicum III (1)
Supervised practical application of previously studied theory related to health information functions in non-acute-care facilities and other healthcare-related facilities  COREQ 405, 406, 486, 489 60 clinical practice hours

486 Clinical Practicum IV (3)
Supervised practical application in an acute-care facility of previously studied theory related to supervision and management of health information department personnel and functions  COREQ 405, 406, 485, 486 180 clinical practice hours

495 Seminar in Health Information Management (3)
Discussion of problems the student may expect to encounter in health information management, research paper required, national registration exam simulation  COREQ 405, 406, 485, 486

Health Sciences (HSCC)

130 Introduction to Health Professions (3)
Survey of health specialties, the health sciences, and the preparation, values, and perspectives of health professionals, roles of members of the health care team

220 Medical Terminology (3)
The meaning, construction, and use of terms in the medical and health sciences, standard medical abbreviations

240 Introduction to Emergency Medical Care (3)
Basic life support, assessment and care of traumatic and medical emergencies, patient stabilization, meets state First Responder requirements

241 Basic Emergency Medical Techniques (2)
Patient assessment, CPR, airway management, splinting and bandaging, childbirth, rescue, and extrication  PREQ or COREQ 240 4 Lab/field
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>260</td>
<td>Etiology of Infectious Diseases (3)</td>
<td>Disease-causing bacteria, viruses, rickettsia, fungi, and animal parasites, disease-producing mechanisms and resistance to infection 2 Lecture, 2 Lab</td>
</tr>
<tr>
<td>330</td>
<td>Legal and Legislative Aspects of Health Care (1-3)</td>
<td>The legal aspects of health care and legislative forces affecting it, impact on practitioners</td>
</tr>
<tr>
<td>370</td>
<td>Introduction to Pharmacology (1-3)</td>
<td>Principles, including the dynamics of drug activity, synthesis, and toxicity in drug therapy  PREQ Permission of instructor</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Health Sciences (1 or 3, R15)</td>
<td>See Cooperative Education Program</td>
</tr>
</tbody>
</table>

**Graduate Course**

610 Development, Supervision, and Evaluation of Clinical Education (3)

**Health Services Management and Supervision (HSMS)**

320 Human Resource Management in Health Care Agencies (3)

Selected knowledge and skills related to recruiting, interviewing, selecting, training, and evaluating human resources in healthcare agencies

330 Health Care Delivery Systems (3)

Structures, components, and functions of the healthcare system, links with the nation's social, economic, and political entities, factors affecting consumer demand

340 Perspectives in Health Care (3)

Problems related to factors affecting healthcare agencies, cost, availability, and distribution of services

450 Financial Management in Health Care (3)

Selected knowledge and skills related to budgeting and the financial management of clinical departments and service units  PREQ 320, 340, or permission of instructor

460 Management of Health Resources (3)

Concepts of resource management in healthcare delivery, the supervision process and related skills as applied in various health-related facilities

493 Problems in Health Care Management (3)

Seminar on current issues, major paper required  PREQ HSMS or EMC major

495 Seminar in Health Sciences (1)

Current literature and research on selected topics  PREQ health science major or permission of instructor

**Graduate Courses**

550 Financial Management in Health Care (3)

650 Quality Assurance Issues and Outcomes (3)

560 Management of Health Resources (3)

680 Directed Independent Study in Health Science (1-3, R6)

610 Service Delivery Systems in Health Care (3)

693 Special Problems in Health Care (3)

620 Health Regulation and Practice Law (3)

694 Seminar in Health Care Management Issues (3)

630 Manpower Dynamics in Health Care (3)

699 Thesis in Health Science (3)

640 Information Systems for Health Care (3)

**Higher Education (EDHE)**

431 Foundations of Adult Education (3)

Historical, sociological, psychological, and philosophical foundations of adult education, the nature and characteristics of adult learners, review of research
### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>531</td>
<td>Foundations of Adult Education</td>
<td>3</td>
</tr>
<tr>
<td>605</td>
<td>The Two-Year College</td>
<td>3</td>
</tr>
<tr>
<td>610</td>
<td>Two-Year College Instruction</td>
<td>3</td>
</tr>
<tr>
<td>636</td>
<td>Two-Year College Curriculum Development</td>
<td>3</td>
</tr>
<tr>
<td>683</td>
<td>Internship Two-Year College Administration I</td>
<td>2</td>
</tr>
<tr>
<td>686</td>
<td>Practicum in Two-Year College Teaching</td>
<td>2</td>
</tr>
<tr>
<td>693</td>
<td>Topics in Higher Education</td>
<td>1(R3)</td>
</tr>
<tr>
<td>695</td>
<td>Seminar on the Two-Year College</td>
<td>2</td>
</tr>
<tr>
<td>700</td>
<td>Administration of Two-Year Colleges</td>
<td>2</td>
</tr>
<tr>
<td>710</td>
<td>Administration of Two-Year Colleges</td>
<td>2</td>
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</table>

### History (HIST)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>105</td>
<td>History of Modern Western Civilization</td>
<td>3</td>
</tr>
<tr>
<td>106</td>
<td>Modern American Institutions</td>
<td>3</td>
</tr>
<tr>
<td>107</td>
<td>World Cultures in Historical Perspective</td>
<td>3</td>
</tr>
<tr>
<td>221</td>
<td>European History to 1648</td>
<td>3</td>
</tr>
<tr>
<td>222</td>
<td>European History Since 1648</td>
<td>3</td>
</tr>
<tr>
<td>231</td>
<td>American History to 1865</td>
<td>3</td>
</tr>
<tr>
<td>232</td>
<td>American History Since 1865</td>
<td>3</td>
</tr>
<tr>
<td>297</td>
<td>Sophomore Seminar</td>
<td>3</td>
</tr>
<tr>
<td>311</td>
<td>Ancient Greece and Rome</td>
<td>3</td>
</tr>
<tr>
<td>313</td>
<td>The Medieval World</td>
<td>3</td>
</tr>
<tr>
<td>317</td>
<td>History of Twentieth Century International Relations</td>
<td>3</td>
</tr>
<tr>
<td>322</td>
<td>British History to 1603</td>
<td>3</td>
</tr>
<tr>
<td>323</td>
<td>British History Since 1603</td>
<td>3</td>
</tr>
<tr>
<td>327</td>
<td>Modern Russia</td>
<td>3</td>
</tr>
<tr>
<td>341</td>
<td>North Carolina History</td>
<td>3</td>
</tr>
</tbody>
</table>

- Western civilization from the Renaissance through the 20th century against the background of classical civilizations and the medieval period (P5)
- A consideration of the major American social, economic, and political institutions in the 20th century (Pib)
- Comparison of Western culture and non-Western cultures, historical developments and their impact on the modern world (P4)
- Social, cultural, economic, and political developments that shaped European civilization from earliest times through the Reformation
- Social, cultural, economic, and political developments that shaped European civilization since the Reformation
- Historical methods, historiography, and directed research
- Cultural, intellectual, and political developments in Greece and Rome, including the origins of Christianity
- Europe from the founding of Constantinople to the late medieval period
- The Paris Peace Conference and aftermath, failure of the League of Nations, the road to World War II, World War II, the Cold War, emergence of the Third World, the Common Market
- Ancient and Roman Britain, Anglo-Saxon society, the Middle Ages, Reformation and Tudor government and society, emphasis on England but includes Celtic history
- Constitutional struggles of the 17th century, the age of aristocracy, industrial transformation and 19th-century growth and reform, rise of the welfare state
- The pre-revolutionary background and the Soviet period
- Developments contributing to the growth of the state, the emergence of North Carolina since 1900
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>354</td>
<td>American Military History (3)</td>
<td>Military affairs in the United States from the Revolution to the present, emphasis on war as a social institution</td>
</tr>
<tr>
<td>361</td>
<td>Latin American History I (3)</td>
<td>Indian civilizations, Spanish and Portuguese exploration, the conquistadores, colonial life, consolidation and maturity of empire, influence of the Enlightenment</td>
</tr>
<tr>
<td>362</td>
<td>Latin American History II (3)</td>
<td>Revolutions, independence, struggle for political stability, popular government on trial, contests of hegemony, rise of indigenous nationalism</td>
</tr>
<tr>
<td>371</td>
<td>Modern China (3)</td>
<td>Late Imperial China and the Nationalist and Communist revolutions</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in History (1 or 3, R15)</td>
<td>See Cooperative Education Program</td>
</tr>
<tr>
<td>411</td>
<td>Western Imperialism, 1800 to the Present (3)</td>
<td>Western imperialism in Africa and Asia, World War I and its aftermath, the roots of Third-World independence movements</td>
</tr>
<tr>
<td>412</td>
<td>Early Modern Europe (3)</td>
<td>The Reformation, development of the modern state, Scientific Revolution, rise of capitalism, social change</td>
</tr>
<tr>
<td>413</td>
<td>Europe in the Eighteenth Century (3)</td>
<td>The Old Regime, wars of expansion, the Enlightenment, the French Revolution and Napoleon</td>
</tr>
<tr>
<td>414</td>
<td>Europe in the Nineteenth Century (3)</td>
<td>Post-Napoleonic settlement, internal, colonial, and imperial developments, unification movements, background for World War I</td>
</tr>
<tr>
<td>416</td>
<td>Europe in the Twentieth Century (3)</td>
<td>World War I, the Paris Peace Conference, domestic developments, the rise of “isms” in Russia, Italy, and Germany, World War II, postwar reconstruction and reorganization, the Cold War</td>
</tr>
<tr>
<td>431</td>
<td>Colonial America, 1492-1763 (3)</td>
<td>Political, social, economic, and cultural characteristics</td>
</tr>
<tr>
<td>432</td>
<td>The Revolutionary Era, 1763-1800 (3)</td>
<td>Causes and effects of the revolution, the War for Independence, the Constitution, the Federalist Era</td>
</tr>
<tr>
<td>433</td>
<td>The Young Republic, 1800-1848 (3)</td>
<td>Jeffersonian democracy, War of 1812, Era of Good Feelings, Jacksonian democracy, western expansion, the Mexican War</td>
</tr>
<tr>
<td>434</td>
<td>Civil War and Reconstruction, 1848-1877 (3)</td>
<td>Sectional differences, the secession movement, military operations, Reconstruction</td>
</tr>
<tr>
<td>435</td>
<td>Emergence of Industrial America, 1877-1920 (3)</td>
<td>Growth and conflict of organized industry and labor, agrarian decline and revolt, American imperialism, progressive reform, World War I, postwar crises</td>
</tr>
<tr>
<td>436</td>
<td>The United States Since 1920 (3)</td>
<td>Roaring Twenties, Great Depression, New Deal, World War II, role as Cold-War superpower, domestic developments</td>
</tr>
</tbody>
</table>
442 History of Black America (3)
Role of the Black in American history, African background, religious, cultural, economic, and political institutions, trends toward assimilation, black nationalism

443 The American South (3)
Social structure and economic interests of the Antebellum South, impact of Civil War and Reconstruction, the New South, the 20th-century South, emphasis on regional differences and social transition

445 Cherokee History (3)
Pre-contact Cherokee society, acculturation, removal, post-removal development of the Cherokee Nation West and the Eastern Band of the Cherokees

446 Southern Appalachian Culture (3)
History and folkways in the period of geographic isolation, changes in regional culture in an age of improved transportation and communications

451 Women in American History (3)
Historic role of women, attitudes in various periods, women in American culture, the women's rights and feminist movements

463 History of the Mexican Nation (3)
Mexico since 1810, 19th-century conflicts, revolution, 1910-1917, progress to the present

472 Local History and Genealogy (3)
Role of the family and community in shaping state, regional, and national developments, emphasis on research techniques and local resources Lecture and fieldwork

473 Archives and Museum Management (3)
Preservation, management, and display of archival materials and museum artifacts, with emphasis on museum management Lecture and fieldwork

475 Historical Editing (3)
Analysis of manuscripts, government documents, and transcripts of oral testimony, emphasis on evaluation, selection, transcription, and annotation of materials and completion of an editorial project Lecture and fieldwork

478 Historic Sites and Historic Preservation (3)
Aspects of historic preservation, emphasis on aesthetic, legal, financial, and public relations considerations Lecture and fieldwork

483 Internship Project in History (3, 3, 3)
Work experience on historical problems, written assignments required S/U grading

493 Topics in History (3, R12)

498 Senior Seminar (3)
A comparative study of European and American ideas and institutions and the impact on the history of each culture PREQ Permission of department head

Graduate Courses

511 Western Imperialism, 1800 to the Present (3) 563 History of the Mexican Nation (3)
512 Early Modern Europe (3) 572 Local History and Genealogy (3)
513 Europe in the Eighteenth Century (3) 573 Archives and Museum Management (3)
514 Europe in the Nineteenth Century (3) 575 Historical Editing (3)
516 Europe in the Twentieth Century (3) 578 Historic Sites and Historic Preservation (3)
531 Colonial America, 1492-1763 (3) 589 Cooperative Education in History (3)
532 The Revolutionary Era, 1763-1800 (3) 593 Topics in History (3, R12)
533 The Young Republic, 1800-1848 (3) 631 American Historiography (3)
534 Civil War and Reconstruction, 1848-1877 (3) 680 Readings in History I, II, III, IV (3, R6 per course)
535 Emergence of Industrial America, 1877-1920 (3) 681
536 The United States Since 1920 (3) 682
542 History of Black America (3) 683
171 Orientation (1)
The home economics profession, plan for personal and professional growth, career opportunities. S/U grading

270 Optimal Living (3)
Optimizing daily living throughout the life span for individuals and families through food and nutrition, clothing and textiles, and environmental interiors

311 Home Economics Curriculum and Materials (3)
Programs for consumer, homemaking, and occupational home economics

317 Teaching Methodology (3)
Methods and teaching strategies for application of knowledge and skill in individual and classroom instruction. Emphasis on discussion and simulation of function and task roles. PREQ Admission to teacher-education program or permission of department head

321 Family Finance (3)
Management of financial resources in relation to individual and family needs, goals, and values, consumer problems

389 Cooperative Education in Home Economics (1 or 3, R15)
See Cooperative Education Program

410 Consumer Strategies (3)
The relationship of individuals to their natural and man-made environments and the interplay that shapes the functioning of families as consumers. PREQ 210

480 Independent Study in Home Economics (1-3, R6)
PREQ Permission of instructor

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student's career field
485 S/U grading 9 hours per week per course

493 Topics in Home Economics (1-3, R6)

495 Professional Seminar (1)
The role of professionalism in gainful employment and career advancement. S/U grading

Graduate Courses

514 (IET 514) Career Exploration (3)
593 Topics in Home Economics (1-3, R6)
601 Professional Issues (3)
602 (IET & OA 602) Vocational Education History and Philosophy (3)
610 (IET 610) Vocational/Technical Evaluation (3)
611 Program Development in Home Economics (3)
620 Contemporary Consumer Issues (3)
652 Computer Applications in Design/Consumer Technology (3)
653 Creative Ergonomics (3)
680 Independent Study in Home Economics (1-3, R6)
680 Research Project (1-3, R6)
693 Topics in Home Economics (1-3, R6)
699 Thesis (3, R6)

Human Resource Development (HRD)

Graduate Courses

589 Cooperative Education in Human Resource Development (3)
610 Human Resource Development (3)
612 Instructional Design (3)
670 Program Evaluation (3)
675 Managing the Human Resource Development Functions (3)
683 Field Experience in Human Resource Development (3)
Industrial Distribution (ID)

130 Interpreting Engineering Schematics and Diagrams (1)
Basics of reading "blueprints" of maps, pictorial, schematic, architectural, and engineering drawings, techniques of fast hand-sketching  2 Lab

230 Industrial Distribution (3)
The flow of industrial goods and services through the industrial distributor

360 Industrial Distribution Organization (3)
Survey of organizational structure in manufacturing industries

480 Problems in Industrial Distribution (1-3)
Independent study of problems in industrial distribution, project required  PREQ Industrial distribution major and permission of instructor

493 Special Topics (1-3, R6)
PREQ Industrial distribution major and permission and permission of instructor

Industrial and Engineering Technology (IET)

130 Introduction to Industrial Education and Technology (1)
The philosophy, scope, and objectives of industrial education, industry, and related businesses, survey of employment opportunities

132 Introduction to Industrial and Vocational Education (3)
The philosophy and scope of industrial and vocational education, survey of employment opportunities, methods of instruction in related vocational programs

140 Furniture Manufacturing (4)
Introduction to wood technology, processing and matching wood for furniture production  3 Lecture, 2 Lab

150 Engineering Graphics (4)
Forms of industrial drawing, orthographic and pictorial projections, sketching, basic drawing board procedures, and an introduction to basic computer-aided design  3 Lecture, 2 Lab

260 Metals Technology (4)
Physical and mechanical properties of ferrous and nonferrous metals, including heat treating, casting, forming, and welding  3 Lecture, 2 Lab

300 Industrial Ceramics (3)
The industrial ceramics industry, principles of clay, glaze, and mold production  2 Lecture, 3 Lab

303 Leathercraft (3)
Tools, materials, and processes used in the leather industry through construction of leather articles  2 Lecture, 3 Lab

307 Stained Glass Glaziery (3)
Practical applications and fundamentals, including came, copper foil, and epoxy construction  1 Lecture, 4 Lab

313 Graphic Arts (4)
Study of the tools, materials, equipment, and processes in graphic arts industries through design and construction experiences  3 Lecture, 2 Lab
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
<th>Lecture</th>
<th>Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>320</td>
<td>Power Technology (4)</td>
<td>Forms of energy and prime movers used by men to increase their value and utility, activities with energy converters and power transmission and control components and systems Typically offered in fall semester of years with even numbers</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>330</td>
<td>Industrial Arts for the Elementary Teacher (2)</td>
<td>Industrial procedures, tools, materials, and projects suitable for the elementary school</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>335</td>
<td>Industrial Safety (3)</td>
<td>Standards and practices for industrial and educational safety related to local, state, and federal safety regulations</td>
<td>3</td>
<td>3</td>
<td>0</td>
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<tr>
<td>336</td>
<td>Environmental Instrumentation (3)</td>
<td>Basic instrumentation techniques used to measure industrial safety and health hazards</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>337</td>
<td>Management of Safety Systems (3)</td>
<td>Comprehensive, organized management approach for identifying, measuring, and reducing operational errors leading to accidents</td>
<td>3</td>
<td>3</td>
<td>0</td>
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<tr>
<td>338</td>
<td>Fire Control and Compliance Management (3)</td>
<td>Emergency planning, compliance with standards, recognition of fire hazards, implementation of controls, and extinguishing agents and methods</td>
<td>3</td>
<td>3</td>
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<tr>
<td>341</td>
<td>Alternate Energy Sources (3)</td>
<td>Overview of alternate energy sources, active and passive solar energy, wind energy, hydroelectricity, other topics</td>
<td>3</td>
<td>3</td>
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<tr>
<td>342</td>
<td>Construction Processes (3-4)</td>
<td>Principles and processes for producing marketable buildings as these relate to the North Carolina Building Code</td>
<td>3</td>
<td>3</td>
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<tr>
<td>350</td>
<td>Technical Drawing and Illustration (3)</td>
<td>Orthographic and axonometric drawing including multiview, isometric, dimetric, trimetric, cavalier and cabinet obliques, dimensioning, sectioning and assemblies, surface treatments</td>
<td>3</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>351</td>
<td>Architectural Drafting and Design I (3)</td>
<td>Designing and drawing a complete set of residential plans, concepts and techniques of house construction, building codes</td>
<td>3</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>352</td>
<td>Furniture and Architectural Drafting and Design (3)</td>
<td>Furniture and architectural design, dimensioning, detailing, and illustration</td>
<td>3</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>353</td>
<td>Orthographic Rendering and Design (3)</td>
<td>In-depth experiences in axonometric drawing and rendering, completing orthographic rendering of residential house plans, expanding plumbing plans, sky lighting, and use of alternate building materials</td>
<td>3</td>
<td>3</td>
<td>1</td>
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<tr>
<td>361</td>
<td>Machining Processes (4)</td>
<td>Metal removal and fabrication processes</td>
<td>4</td>
<td>3</td>
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<tr>
<td>370</td>
<td>Electricity (4)</td>
<td>Direct and alternating current sources, circuits, circuit analysis, introduction to electronic functions</td>
<td>4</td>
<td>3</td>
<td>1</td>
</tr>
</tbody>
</table>

**Notes:**
- 260, MATH 130, 144 or 145 are prerequisites for Machining Processes (361).
- MATH 144 or 145, PHYS 130 are prerequisites for Electricity (370).
371 Electronics (4)
Solid state and vacuum tube devices, power supply, amplifier, oscillator, and logic circuits
PREQ 370 3 Lecture, 2 Lab

389 Cooperative Education in Industrial Technology (1 or 3, R15)
See Cooperative Education Program

400 Recreational Crafts (3)
Activities for schools, camps, churches, retirement centers, and other recreational programs
2 Lecture, 3 Lab

409 History and Philosophy of Vocational Education (3)

420 Polymer Technology (4)
Industrial fabrication techniques, topics in polymer science and mold construction
3 Lecture, 2 Lab

422 Advanced Polymer Technology (3)
Theory and application of molding processes, emphasis on thermoplastic and thermoset injection, topics in polymer science and microprocessing

423 Fluid Systems (3)
Basic fluid mechanics, hydraulic and pneumatic systems used in industrial manufacturing processes
PREQ PHYS 130 2 Lecture, 2 Lab

430 Occupational Analysis and Course Construction (3)
Principles and techniques of selecting, analyzing, and arranging teaching activities

432 Shop/Laboratory Organization and Management (3)
Supplies, equipment, safety, development of a planned facility for industrial/vocational education
Typically offered in fall semester of years with even numbers
PREQ Permission of department head

435 Technology and Civilization (3)
The interdependence of society and technology, modern industrial processes, use of energy and material resources, pollution, population explosion, food supplies

436 Cooperative Vocational Education (3)
Preparation for teachers seeking certification, emphasis on needs of trade and industrial teachers
PREQ EDSE 320 or permission of instructor

437 Student Organizations in Vocational Education (3)
Techniques of planning and advising organizations

472 Robotics and Industrial Electronics (3)
Electronic sensing, logic, and control functions applied to electromechanical systems, review of basic robot designs and applications
PREQ 371 2 Lecture, 2 Lab

480 Problems in Industrial and Engineering Technology (1-3, R6)
Independent study in industrial, technical, or vocational education, project required
PREQ Permission of advisor and instructor

493 Special Topics (1-3, R6)
PREQ Permission of instructor

Graduate Courses
513 Advanced Graphic Arts (3)
514 (HE 514) Career Exploration (3)
522 Advanced Polymer Technology (3)
532 Shop/Laboratory Organization and Management (3)
540 Wood Technology (3)
560 Industrial Materials and Processes (3)

630 Trends in Industrial Education (3)
632 Administration of Industrial Education (3)
636 Cooperative Vocational Education (3)
640 Value Analysis (3)
641 Quality Assurance (3)
650 Program Planning in Vocational/Technical Education (3)
153 Introduction to Interior Design (2)
   Elements and principles of design, creative problem solving  1 Lecture, 2 Lab

253 Space Planning and Color (4)
   Interior space planning and color application in three-dimensional spaces  PREQ 153
   or permission of instructor  2 Lecture, 4 Lab

254 Perspective Drawing (4)
   Two-point perspective drawing, shadow casting, and rendering of interior spaces
   PREQ 253, IET 350  COREQ IET 351  2 Lecture, 4 Lab

351 Lighting Design for Interiors (3)
   Survey of natural and artificial lighting sources, methods of selection and specification,
   physiological and psychological responses to various lighting applications  PREQ IET
   351  2 Lecture, 2 Lab

353 Residential Design (4)
   Design of residential spaces using skills and information learned in IDSN 253
   Application of materials, lighting, and presentation techniques  PREQ 254  COREQ
   351, 356  2 Lecture, 4 Lab

355 History of Interiors and Furnishings I (3)
   Survey of interiors and furniture from ancient times to the 19th century  PREQ ART
   136 or ART 137

356 Methods and Materials for Interior Design (3)
   Composition, manufacture, source, application, and specification information for
   interior materials  PREQ IET 351

357 Contract Design I (4)
   Design of office spaces incorporating conventional and systems furniture  PREQ 353
   2 Lecture, 4 Lab

358 History of Interiors and Furnishings II (3)
   Survey of interiors and furniture from the beginning of the 19th century to the present
   PREQ 355

389 Cooperative Education in Interior Design (1 or 3, R15)
   See Cooperative Education Program

456 Contract Design II (4)
   Creation of designs for commercial applications  PREQ 357  2 Lecture, 4 Lab

458 Professional Practice in Interior Design (3)
   Methods of organizing and marketing design services, use of business forms and
   contracts  PREQ 456

459 Portfolio Review (1)
   A comprehensive evaluation of completed interior design projects and their organization
   in students' portfolios  PREQ 456 or permission of instructor  2 Lab

480 Independent Study in Interior Design (1-3, R6)
   PREQ  Permission of instructor
483 Internship (3, 3, 3)
Integration of theory and practice in a setting appropriate to the student's career field
S/U grading  PREQ  357, 358, or permission of instructor  9 hours per week per course

493 Topics in Interior Design (3, R9)
Examination of current topics and trends in interior design  PREQ Permission of instructor

Management (MGT)

300 Introduction to Management (3)
Principles, issues, and practices of modern management, the production process in creating goods and services, behavioral concepts pertinent to managerial functions

301 International Management (3)
Issues in the management of international enterprises, adaptation of managerial functions and skills to the international business environment  PREQ  300

302 Labor-Management Relations (3)
Critical roles of labor unions, legislative bodies, and governmental regulation, alternative strategies in impasse resolution  PREQ  300

304 Personnel Management (3)
Recruiting, training, evaluating, and rewarding human resources, developing and implementing effective personnel programs  PREQ  300

305 Quantitative Business Analysis (3)
Models for decision making in production and operations management, linear programming, transportation and assignment, probabilistic models, forecasting, inventory and network analysis, queuing theory, simulation  PREQ ECON 235  COREQ  300

306 Behavioral Science in Organizations (3)
Examination of individual and collective human behavior in organizations, including the processes of motivation and leadership, recognizing implications of individual and cultural diversity  PREQ  300

389 Cooperative Education in Management (1 or 3, R15)
See Cooperative Education Program

400 Organization Theory (3)
Structure and process at the organizational level, size, complexity, formalization, goals, centralization and decentralization, and environment  PREQ  306

401 Small Business Management (3)
Operations and strategies of small firms, integration of functional areas, economic, social, political, technological, and governmental factors  PREQ Permission of instructor

402 Production and Operations Management (3)
Management processes for the creation of products and services, analytical techniques and controls  PREQ  305

405 Compensation Management (3)
Theory from economics and the behavioral sciences, public policy regarding pay, pay surveys, job evaluation, performance appraisal, and incentive plans  PREQ  304

407 Interpersonal Behavior (3)
Awareness and competence in managerial interpersonal relationships, listening behavior, examination of self concept  PREQ  300

480 Independent Research (3)
PREQ  Permission of department head
483 Internship in Management (3, 3, 3)
484 Supervised work or research in applications of previously studied theory S/U grading
485 PREQ Junior standing, 2.0 GPA, written application, permission of department head Minimum of 10 hours per week

493 Topics in Management (1-3, R6)
PREQ Permission of department head

495 Seminar in Management (3)
Integration of management concepts, development of management knowledge and skills, preparation for the professional world of work PREQ or COREQ All management business core and management major courses

Graduate Courses:
- 605 Organizational Behavior and Analysis (3)
- 606 Quantitative Analysis for Business I (3)
- 607 Strategic Management (3)
- 608 Personnel Administration (3)
- 609 The Collective Bargaining Process (3)
- 611 Production and Operations Management (3)
- 613 Management of International Operations (3)
- 614 Managerial Career Development (3)
- 670 Project Management Systems (3)
- 672 Human Resource Management in Projects (3)
- 674 Project Contract Management (3)
- 676 Specialized Project Management Techniques I (3)
- 677 Specialized Project Management Techniques II (3)
- 678 Project Management Organization and Policy (3)
- 681 Research Project in Management (3, R6)
- 693 Topics in Management (3, R6)

Manufacturing Engineering Technology (MET)

160 Industrial Computer Applications (3)
Introduction to industrial computer systems, elementary programming, interactive and batch processing, software analysis for industrial applications

320 Plant Layout and Material Handling (3)
Problem analyses and design of plant facilities, plant layout, material flow and handling, physical storage systems PREQ IET 150, 361

351 Statics and Dynamics (3)
Study of forces acting on rigid bodies, at rest and in motion PREQ PHYS 130, MATH 146 COREQ MATH 153

352 Strength of Materials (3)
The relationship between externally applied forces and internally induced stresses in structural members PREQ 351 or equivalent, MATH 153 2 Lecture, 2 Lab

363 Methods and Standards (3)
Process analysis, principles of motion economy, elemental time data, and production rating schedules PREQ MGT 300, MATH 170

366 Manufacturing Materials and Processes (3)
Study of the nature, composition, and structure of various materials used in manufacturing Materials include ferrous and non-ferrous metals, polymer, ceramics, wood, and fibers

393 Topics in Engineering Technology (1-3, R9)

410 Computer Drafting (3)
Computer-aided drafting and design (CADD), principles, practices, trends, hardware, software, survey of computer-aided manufacturing and engineering 440 Fluid Power (3)
Development, transmission, and use of power through fluid power circuits and controls PREQ PHYS 130 or 230 2 Lecture, 2 Lab
460 Materials Management (3)
   Systematic methods of understanding and controlling all the materials used by a manufacturing organization from purchase to final delivery  PREQ 160 and MATH 170

462 Quality Control (3)
   Modern concepts of the quality assurance function of industry to maximize customer satisfaction at optimum product cost  PREQ 160, MATH 170

463 Manufacturing Planning and Cost Estimating (3)
   Correlation of design and manufacturing requirements, planning manufacturing operations for parts and assemblies, time/cost estimates  PREQ 363, 130 or IET 150, IET 361

465 Engineering Economy (3)
   The economics of decision making, including break-even, least cost, and alternatives related to the time value of money  PREQ ECON 231

478 Senior Design Project Proposal (1)
   Research methodology, literature review, and industrial project writing styles, culminating in a written report proposal for a senior project  S/U grading  PREQ Senior standing and permission of instructor

479 Senior Design Project (3)
   Organizing, planning, and implementing a project using acceptable industrial techniques culminating in a formal written report and oral presentation  PREQ or COREQ 478  1 Lecture, 4 Lab

493 Special Topics (1-3, R6)
   PREQ  Permission of instructor

Marketing (MKT)

301 Principles of Marketing (3)
   Introduction to marketing principles and problems

302 Marketing Communications (3)
   Role of communication in marketing, mass communications, media costs, audience analysis  PREQ 301

303 Marketing Research (3)
   The role of research in marketing decisions, emphasis on data gathering, compilation, analysis, and interpretation  PREQ 301, ECON 235

304 Consumer Behavior (3)
   Interdisciplinary study of buyer motivation and behavior, contributions of the behavioral sciences to consumer purchasing decision processes  PREQ 301

305 Marketing Information Systems (3)
   Systemic study of information flows and marketing intelligence  PREQ 301, CIS 251

306 Professional Selling (3)
   Sales persuasion skills, theories, and principles, simulated selling situations  PREQ 301

389 Cooperative Education in Marketing (1 or 3, R15)
   See Cooperative Education Program

401 Marketing and Social Issues (3)
   Contemporary issues, including social responsibilities and specific marketing practices  PREQ 301
403 Advertising Management (3)
Planning and production of a professional advertising campaign  PREQ 302

404 Retailing Management (3)
Retailing organization and management, including store location, merchandise manage-
ment, expense analysis and control, and current issues and trends

405 Marketing Management (3)
Marketing decision making studied from the manager’s viewpoint, emphasis on market
analysis, planning, and strategy development  PREQ 301

406 Channels of Distribution (3)
Theory and concepts in channel management, emphasis on structural, operational, and
leadership decisions  PREQ 301

407 International Marketing (3)
Problems, opportunities, and strategies in an international marketing environment,
trade concepts and theories, cultural, political, legal, and financial constraints  PREQ
301

408 Problems in Marketing Management (3)
Analysis of cases relevant to the problems encountered by the marketing manager
PREQ 405

409 Industrial Marketing (3)
Market, product design, pricing strategy, logistics, promotion, government and institu-
tional markets in the context of the political, economic, technological, and ethical
environments  PREQ 301

483 Internship in Marketing (3, 3, 3)
Supervised experience in applications of previously studied theory  S/U grading

484  PREQ  Junior standing, 2.0 GPA, written application, permission of department head
Minimum of 10 hours per week

493 Topics in Marketing (1-3, R6)
PREQ  Permission of department head

Graduate Courses
601 Marketing Management (3)
602 Marketing Research (3)
603 Consumer Behavior (3)
604 Marketing Communications (3)
682 Research Project in Marketing (3, R6)
693 Topics in Marketing (3, R6)

Mathematics (MATH)

100 Elementary Algebra (3)
Basic algebraic skills including arithmetic, simplifying algebraic expressions, solving
linear and quadratic equations, exponents, and radicals  Not open to students with credit
for courses numbered 130 and above  Credit earned in this course will not count toward
128 hours required for graduation

101 Mathematical Concepts (3)
Great ideas in mathematics, numbers and number patterns, logic and reasoning,
induction, deduction, topics from algebraic and geometric structures, probability,
statistics, calculus, and graph theory  (F2)

130 College Algebra (3)
Real number properties, solving equations, inequalities, systems of equations, func-
tions, and graphs  PREQ 100 or placement

140 Introductory Calculus (5)
The differential and integral calculus of algebraic functions of one variable  PREQ 130
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
<th>Pre-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>144</td>
<td>Applied Trigonometry (3)</td>
<td>Topics including right triangles, trigonometric functions, graphing, basic identities, triangle solutions, and complex numbers, emphasis on applications</td>
<td>Not open to students with credit in 145  PREQ 130</td>
</tr>
<tr>
<td>145</td>
<td>Trigonometry (3)</td>
<td>Basic trigonometry, functions, identities, graphs, solution of equations and triangles, complex numbers, analytical trigonometry</td>
<td>Not open to students with credit in 144  PREQ 130 or placement</td>
</tr>
<tr>
<td>146</td>
<td>Algebra and Analytical Geometry (3)</td>
<td>Functions and graphs, polynomial, logarithmic, and exponential functions, mathematical induction, sequences and series, conic sections</td>
<td>PREQ 130 or placement</td>
</tr>
<tr>
<td>153</td>
<td>Calculus I (4)</td>
<td>Limits, continuity, derivatives, and integrals of algebraic and trigonometric functions with applications</td>
<td>PREQ 145 and 146, or placement</td>
</tr>
<tr>
<td>170</td>
<td>Applied Statistics (3)</td>
<td>Data analysis, descriptive analysis, exploratory data analysis, binomial and normal distributions, point and interval estimates, hypothesis tests, correlation, regression, goodness of fit, analysis of variance, and non-parametric methods</td>
<td>PREQ 100 or placement</td>
</tr>
<tr>
<td>171</td>
<td>Statistics with Minitab (1)</td>
<td>A laboratory course to provide experience using the minitab statistical package</td>
<td>COREQ 170 or permission of instructor 2 Lab</td>
</tr>
<tr>
<td>230</td>
<td>Theory of Arithmetic I (3)</td>
<td>Logic, sets, relations, mathematical systems, counting, numeration systems, and algorithms for whole numbers</td>
<td>PREQ 230</td>
</tr>
<tr>
<td>231</td>
<td>Theory of Arithmetic II (3)</td>
<td>Measurement (metric system), number theory integers, rationals, irrationals, and reals</td>
<td>PREQ 230</td>
</tr>
<tr>
<td>250</td>
<td>Introduction to Logic and Proof (2)</td>
<td>An introduction to the principles of logic and the methods of proof necessary for the successful study of mathematics</td>
<td>PREQ 250</td>
</tr>
<tr>
<td>254</td>
<td>Matrix Theory (3)</td>
<td>Matrices and linear equations Not open to students with credit in 262  PREQ 146, CS 150</td>
<td></td>
</tr>
<tr>
<td>255</td>
<td>Calculus II (4)</td>
<td>Derivatives and integrals of transcendental functions, techniques of integration, indeterminant forms, improper integrals, infinite series</td>
<td>PREQ 153</td>
</tr>
<tr>
<td>256</td>
<td>Calculus III (4)</td>
<td>Plane curves, polar coordinates, vectors and solid analytical geometry, vector-valued functions, partial differentiation, multiple integrals</td>
<td>PREQ 255</td>
</tr>
<tr>
<td>260</td>
<td>Informal Geometry (3)</td>
<td>Points, lines, planes, constructions, axiomatic structure of geometry and the nature of proof</td>
<td>PREQ 231</td>
</tr>
<tr>
<td>262</td>
<td>Introduction to Linear Algebra (3)</td>
<td>Systems of equations, matrices, vector spaces, and linear transformations Not open to students with credit in 254  PREQ 250 and 153</td>
<td></td>
</tr>
<tr>
<td>270</td>
<td>Statistical Methods I (3)</td>
<td>Descriptive statistics, probability and sampling distributions, estimation, hypothesis testing</td>
<td>PREQ 170 or 146</td>
</tr>
</tbody>
</table>
286 Laboratory Practicum I, II (1, 1)
286 Materials for teaching elementary mathematical concepts, students design and conduct laboratory experiences. PREQ 231, middle-grades education major with math concentration or permission of instructor. 286 for 287 3 hours

300 Problem Solving (2)
Methods and techniques for problem solving in mathematics 1 Lecture, 2 Lab

310 (CS 310) Discrete Structures (3)
Enumeration topics including arrangements, selections, generating functions, and recurrence relations, basic concepts of graphs and trees. PREQ Junior standing or permission of instructor.

315 Methods and Materials for Teaching Mathematics in the Secondary School (3)
A survey of contemporary trends and issues in teaching mathematics at the secondary level. Methods, materials, curriculum, and other current practices are included. PREQ Admission to the professional-education sequence.

320 Ordinary Differential Equations (3)
Differential equations of first order, first degree with applications, linear equations of higher order and numerical methods, special equations of second order. PREQ 256.

331 Complex Variable Theory (3)
The complex number system, limits, continuity, derivatives, transcendental and multiple-valued functions, integration. PREQ 256.

350 Operations Research (3)
Convexity, linear programming, simplex algorithm, duality, transportation problems, and integer programming. PREQ 254 or 262, 255.

361 Introduction to Abstract Algebra (3)
Groups, rings, and fields. PREQ 250.

370 Statistical Theory I (3)
Elementary probability, discrete and continuous random variables, expectation, moments, sampling distributions, probability distributions. PREQ 256.

375 Statistical Methods II (3)
Analysis of variance, regression, and correlation, analysis of categorical data, distribution-free procedures. PREQ 270.

386 Practicum (2)
Practical experience under faculty supervision for prospective teachers as teaching aides and as tutors. PREQ MATH 255, permission of department head. 5 Lab.

389 Cooperative Education in Mathematics (1 or 3, R15)
See Cooperative Education Program.

393 Topics in Mathematics (1-6, R6)
PREQ Permission of department head.

411 Foundations in Geometry (3)
Axiomatic approach to the study and development of Euclidean and non-Euclidean geometry. PREQ Junior standing or permission of department head.

412 Modern Geometries (3)
Finite geometries, transformations, motions of the Euclidean plane and 3-space, similarity transformations, convexity, and other topics. PREQ Junior standing or permission of department head.

422 Advanced Calculus I (3)
Sequences of real numbers, continuous functions, and differentiation. PREQ 250 and 256.
423 Advanced Calculus II (3)
  Differentiation including L'Hospital's rule and Taylor's theorem, integration theory, other classical topics  PREQ 323

441 (CS 441) Introduction to Numerical Analysis (3)
  Finite differences, interpolation, numerical integration and solutions to ordinary differential equations, linear systems, eigenvalues, eigenvectors, errors  PREQ 254 or 262, 255, CS 150

461 Abstract Algebra (3)
  Topics from abstract algebra including quotient groups and rings, rings of polynomials and field extensions, quaternions, homomorphism theorems  PREQ 361

462 Linear Algebra (3)
  Topics from linear algebra including algebra of linear transformations, dual space, algebra of polynomials, determinants, eigenvalues, diagonalization, and selected applications  PREQ 262

470 Statistical Theory II (3)
  Point and interval estimation, hypothesis testing, decision theory, likelihood ratio and sequential testing, correlation and regression  PREQ 370

479 Capstone Seminar (2)
  A course requiring written papers and oral presentations by students on historical and contemporary ideas from the current mathematical literature  PREQ Senior standing

Graduate Courses

507 Survey of Algebra (3)  508 Survey of Analysis (3)  509 Mathematics for Secondary Teachers (3)
512 Modern Geometry (3)  523 Advanced Calculus II (3)  541 Introduction to Numerical Analysis (3)
561 Abstract Algebra (3)  562 Linear Algebra (3)  570 Statistical Theory II (3)
589 Cooperative Education in Mathematics (3, R6)  593 Topics in Mathematics (1-6, R6)
601 Modern Mathematics for Teachers I (3)  602 Modern Mathematics for Teachers II (3)
603 Modern Mathematics for Teachers III (3)  610 Computers in Education (3)
620 Algebra (3)  622 Analysis I (3)  623 Analysis II (3)  624 Complex Analysis (3)
630 Mathematical Modeling (3)  632 Methods of Applied Mathematics (3)
634 Partial Differential Equations and Boundary Value Problems (3)  640 Numerical Analysis (3)
642 Computer Science (3)  646 Numerical Linear Algebra (3)
661 Applied Algebra (3)  670 Advanced Statistical Theory (3)
672 Advanced Statistical Methods (3)  693 Topics in Mathematics (1-6, R6)
694 Top si in Mathematics Education (1-6, R6)  699 Thesis (3, R6)

Medical Technology (see Clinical Laboratory Science)

Military Science (MS)

130 Fundamentals of Military Leadership I (1)
  Role of the Army in national defense, Army customs and courtesies, weapons training, marksmanship, mountaineering, drill and ceremonies, leadership fundamentals and styles  1 Lecture, 1 Lab

131 Fundamentals of Military Leadership II (1)
  World change and military implications, basic first aid, leadership application and reaction training, drill and ceremonies, recent Army developments  1 Lecture, 1 Lab

240 Development of Military Leadership I (1)
  Principles of war, leadership, troop leading procedures, training philosophy, customs and traditions of the Army, first aid, weapons training, drill and ceremonies  1 Lecture, 1 Lab
241 Development of Military Leadership II (1)
Basic military skills, map reading and land navigation, first aid, terrain analysis, leadership assessment training, weapons training, drill and ceremonies 1 Lecture, 1 Lab

331 Advanced Small Unit Operation (3)
Planning and executing tactical mission, land navigation, weapons and specialized systems, written and oral communication, physical training, leadership reaction training, adventure training, advanced drill and ceremonies  PREQ 130, 131, 240, and 241, or permission of instructor 3 Lecture, 1 Lab

332 Advanced Military Leadership (3)
Analysis of leader behavior and style, management planning and organization, physical training, branch orientation, adventure training, advanced drill and ceremonies  PREQ 130, 131, 240, and 241, or permission of instructor 3 Lecture, 1 Lab

383 Advanced Camp Internship (4)
Training in and practical application of military leadership, land navigation, military skills proficiency, tactical operations, and weapons systems  Full-time, six weeks  PREQ 331 or permission of instructor

430 Military Leadership and Unit Operations (3)
Unit management and leadership, military justice, customs, courtesies, ethics, staff study, developing and executing labs, control of cadet battalion  PREQ 331 3 Lecture, 1 Lab

431 Theory and Dynamics of the Military (3)
Professional development, combined arms team, NATO structure, Warsaw Pact threat, training, personnel, and logistics management, control of cadet battalion, developing and executing labs  PREQ 430 3 Lecture, 1 Lab

Music (MUS)

101 (300) Music Appreciation (3)
Study of the development of musical styles  (P3b)

102 Music in American Culture (3)
American history as reflected in folk, popular, and art music from 1607 to the present  (P5)

110 Introduction to Instrumental Ensembles (1)
Introduction to playing in instrumental ensembles using fundamentals required to function in a group setting  4 Lab  (F5)

111 Introduction to Vocal Ensemble (1)
Rehearsal and performance of a variety of choral works, audition required  3 Lab  (F5)

112 Introduction to Piano (1)
Group lessons in piano and the fundamentals of music for students who do not read music  2 Lab  (F5)

113 Introduction to Singing (1)
Group lessons in voice and the fundamentals of music for students who do not read music  2 Lab  (F5)

114 Introduction to Recorder (1)
Introduction to playing the recorder  2 Lab  (F5)

116 Introduction to Dulcimer (1)
Introduction to the Appalachian plucked dulcimer  2 Lab  (F5)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>117</td>
<td>Introduction to Guitar (1)</td>
<td>1</td>
<td>Group lessons in guitar and the fundamentals of music for students who do not read music. 2 Lab (F5)</td>
</tr>
<tr>
<td>138</td>
<td>Ear Training Laboratory (1, 1)</td>
<td>1, 1</td>
<td>Basic notation reading and aural skills. PREQ Permission of department head</td>
</tr>
<tr>
<td>139</td>
<td>Aural Skills Laboratory I, II (1, 1)</td>
<td>1, 1</td>
<td>Aural perception of rhythmic, melodic, and harmonic devices. PREQ Permission of department head 2 meetings</td>
</tr>
<tr>
<td>177</td>
<td>Basic Music Theory Laboratory (2)</td>
<td>2</td>
<td>An introduction to music reading, interval and chord identification, key signatures, and melodic structures. PREQ Placement examination or permission of department head 4 Lab</td>
</tr>
<tr>
<td>178</td>
<td>Beginning Theoretical and Analytical Skills (4)</td>
<td>4</td>
<td>Music theory skills up to and including secondary dominants and leading tone chords. PREQ 177 or placement examination</td>
</tr>
<tr>
<td>181</td>
<td>Introduction to MIDI/Synthesis (1)</td>
<td>1</td>
<td>Survey of MIDI devices, synthesis techniques, and contemporary music technology. PREQ Permission of instructor 2 Lab</td>
</tr>
<tr>
<td>182</td>
<td>Computer Applications in Music (2)</td>
<td>2</td>
<td>Use of the computer to prepare parts and scores, and to orchestrate and arrange music. PREQ 152 and 177 or permission of instructor</td>
</tr>
<tr>
<td>252</td>
<td>Aural Skills Laboratory, III (1)</td>
<td>1</td>
<td>Advanced aural perception of rhythmic, melodic, and harmonic devices. PREQ 153 2 meetings</td>
</tr>
<tr>
<td>253</td>
<td>Aural Skills Laboratory, IV (1)</td>
<td>1</td>
<td>Advanced aural perception of rhythmic, melodic, and harmonic devices. PREQ 252 2 meetings</td>
</tr>
<tr>
<td>277</td>
<td>Theory and Literature I, II (3, 3)</td>
<td>3, 3</td>
<td>Application of theoretical and analytical skills to literature. PREQ 178 for 277, 277 for 278 3 meetings</td>
</tr>
<tr>
<td>301</td>
<td>Basic Skills (2)</td>
<td>2</td>
<td>Music fundamentals and elementary performance skills 3 meetings</td>
</tr>
<tr>
<td>302</td>
<td>Music for Classroom Teachers (2)</td>
<td>2</td>
<td>Methods and materials for teaching music in the elementary school. PREQ 301 3 meetings</td>
</tr>
<tr>
<td>305</td>
<td>Junior Recital (1)</td>
<td>1</td>
<td>Public performance. May be scheduled after hearing committee approval and completion of junior qualifying examination. PREQ Junior level qualifying examination</td>
</tr>
<tr>
<td>325</td>
<td>Music in the Elementary and Middle School (3)</td>
<td>3</td>
<td>Problems in teaching and supervising the music program in the elementary and middle school. PREQ Admission to the teacher-education program</td>
</tr>
<tr>
<td>326</td>
<td>Instrumental Methods and Materials (3)</td>
<td>3</td>
<td>Methods and materials used in instrumental teaching</td>
</tr>
<tr>
<td>327</td>
<td>Choral Methods and Materials (3)</td>
<td>3</td>
<td>Methods and materials used in developing the school choral program</td>
</tr>
</tbody>
</table>
350 Music History I, II (3, 3)  
Western music from Middle Ages through the Baroque in 350, from the Classical Period through the 20th century in 351. PREQ 278 or permission of department head and instructor

378 Survey of the Music Industry (3)  
The retail and wholesale music trade, publishing, royalties, copyright, performance rights, record production, advertising and promotion, labor relations, contracts, artist management

389 Cooperative Education in Music (1 or 3, R15)  
See Cooperative Education Program

403 Marching Band Techniques (2)  
PREQ 326

405 Senior Recital (1)  
Public performance. May be scheduled after hearing committee approval. PREQ 305

421 Wind Literature (3)  
Literature of wind instruments, emphasis on authentic performance practices. PREQ 278

422 Vocal Literature (3)  
Solo vocal literature since the 16th century. PREQ 278

423 Choral Literature (3)  
Literature from the Renaissance to the present, emphasis on style and authentic performance practices. PREQ 278

424 Keyboard Literature (3)  
Keyboard literature from the Baroque to the present. PREQ 278

425 Studies in Contemporary Music (3)  
Styles and issues of 20th-century music. PREQ 351

428 Choral Conducting (3)  
Study and application of gesture communication and analysis selected to choral conducting. PREQ 252, 278

429 Instrumental Conducting (3)  
Application of techniques and analysis to instrumental conducting. PREQ 252, 278

470 Orchestration and Arranging (2)  
Scoring and arranging for instrumental and vocal ensembles. PREQ 278

471 Arranging for High School Band and Chorus (3)  
Scoring, transcribing, and editing techniques for instrumental and choral ensembles. PREQ 470

489 Internship (3, 6, 9, R9)  
Application of academic training in an approved agency under faculty supervision. Minimum of 9 hours per week for each three credits or 135 hours arranged with the agency and the Department of Music. PREQ 378, BA 133, CIS 251, permission of the department head

493 Topics in Music (1-3, R12)  
PREQ Permission of department head
### Graduate Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>501</td>
<td>Music in the Elementary School</td>
<td>2</td>
</tr>
<tr>
<td>503</td>
<td>Marching Band Techniques</td>
<td>2</td>
</tr>
<tr>
<td>505</td>
<td>Workshop in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>521</td>
<td>Wind Literature</td>
<td>3</td>
</tr>
<tr>
<td>522</td>
<td>Vocal Literature</td>
<td>3</td>
</tr>
<tr>
<td>523</td>
<td>Choral Literature</td>
<td>3</td>
</tr>
<tr>
<td>524</td>
<td>Keyboard Literature</td>
<td>3</td>
</tr>
<tr>
<td>525</td>
<td>Studies in Contemporary Music</td>
<td>3</td>
</tr>
<tr>
<td>528</td>
<td>Choral Conducting</td>
<td>3</td>
</tr>
<tr>
<td>529</td>
<td>Instrumental Conducting</td>
<td>3</td>
</tr>
<tr>
<td>571</td>
<td>Arranging for High School Band and Chorus</td>
<td>3</td>
</tr>
<tr>
<td>572</td>
<td>Jazz Arranging</td>
<td>3</td>
</tr>
<tr>
<td>577</td>
<td>Contrapuntal Techniques</td>
<td>3</td>
</tr>
<tr>
<td>578</td>
<td>Compositional Techniques</td>
<td>3</td>
</tr>
<tr>
<td>592</td>
<td>Orff-Schulwerk Level I</td>
<td>3</td>
</tr>
<tr>
<td>593</td>
<td>Topics in Music (1-3, R12)</td>
<td></td>
</tr>
<tr>
<td>595</td>
<td>Seminar in Arts Management</td>
<td>3</td>
</tr>
<tr>
<td>596</td>
<td>Seminar in the Music Industry</td>
<td>3</td>
</tr>
<tr>
<td>571</td>
<td>Arranging for High School Band and Chorus</td>
<td>3</td>
</tr>
<tr>
<td>572</td>
<td>Jazz Arranging</td>
<td>3</td>
</tr>
<tr>
<td>577</td>
<td>Contrapuntal Techniques</td>
<td>3</td>
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<td>578</td>
<td>Compositional Techniques</td>
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<td>592</td>
<td>Orff-Schulwerk Level I</td>
<td>3</td>
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<tr>
<td>593</td>
<td>Topics in Music (1-3, R12)</td>
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<td>595</td>
<td>Seminar in Arts Management</td>
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<tr>
<td>596</td>
<td>Seminar in the Music Industry</td>
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<tr>
<td>620</td>
<td>Music History Seminar</td>
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</tbody>
</table>

### Performance Courses

Credit is earned on the basis of one hour for each half hour of individual instruction per week. The courses are listed in prerequisite order. The two-hour courses are open only to music majors in the principal performance area. All other students take the one-hour courses. Permission of the department head is required. Passing a qualifying examination is prerequisite for 2/332, 2/336, 2/342, 2/346, 2/356, 2/362, and 2/366.

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Course Numbers</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Brass</td>
<td>130, 131, 230, 231, 330, 331, 430, 431, 432, 433</td>
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<td>132, 133, 232, 233, 332, 333, 432, 433</td>
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<tr>
<td>Percussion</td>
<td>134, 135, 234, 235, 334, 335, 434, 435</td>
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<td>136, 137, 236, 237, 336, 337, 436, 437</td>
<td>2 each</td>
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<td>Piano</td>
<td>140, 141, 240, 241, 340, 341, 440, 441</td>
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<td>142, 143, 242, 243, 342, 343, 442, 443</td>
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<tr>
<td>Organ</td>
<td>144, 145, 244, 245, 344, 345, 444, 445</td>
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<tr>
<td>Harpsichord</td>
<td>150, 151, 250, 251</td>
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<tr>
<td>Voice</td>
<td>154, 155, 254, 255, 354, 355, 454, 455</td>
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<td>156, 157, 256, 257, 356, 357, 456, 457</td>
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<tr>
<td>Woodwind</td>
<td>160, 161, 260, 261, 360, 361, 460, 461</td>
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<td>162, 163, 262, 263, 362, 363, 462, 463</td>
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<tr>
<td>String</td>
<td>164, 165, 264, 265, 364, 365, 464, 465</td>
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<td>166, 167, 266, 267, 366, 367, 466, 467</td>
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<tr>
<td>Music Synthesis</td>
<td>188, 189, 288, 289, 388, 391, 458, 459</td>
<td>2 each</td>
</tr>
</tbody>
</table>

148 Piano Class I, II (1, 1)
149 Basic functional keyboard skills 2 meetings
158 Voice Class I, II (1, 1)
159 Fundamental voice instruction 2 meetings
168 String Class I (1)
Playing stringed instruments, basic technical problems and teaching techniques 2 meetings
169 Classroom Guitar Technique (1)
Basic technical problems and teaching techniques 2 meetings
170 Preparatory Applied Music (2, R4)  
Individual instruction for students not meeting prerequisites  Not applicable to major  
PREQ  Permission of department head  1 meeting

171 Chorus (1, R8)  
Study and performance of representative choral works, open to any student meeting  
eligibility requirements  3 meetings

172 Concert Choir (1, R8)  
Audition required, public performances  4 meetings

173 Band (1, R8)  
Performance of a wide variety of music in the marching, symphonic, and concert bands,  
open to any student meeting eligibility requirements  4 meetings

174 Orchestra (1, R8)  
Experience for advanced strings, wind, and percussion players, formal concerts and  
performances  PREQ  Permission of instructor

175 Ensemble (1, R12)  
Performance in vocal or instrumental ensembles  2 meetings

184 Functional Jazz Keyboard (1, R2)  
Functional keyboard skills in jazz and popular styles  PREQ  152 and 177 or permission  
of instructor  2 meetings

248 Piano Class III, IV (1, 1)  
249 Continuation of 148 and 149  2 meetings

258 Voice Class III (1)  
Continuation of 158 and 159, emphasis on diction and pedagogy  2 meetings

270 Brass Class I (1)  
Brass performance and pedagogy related to trumpet  2 meetings

271 Woodwind Class I (1)  
Playing clarinet and saxophone, basic technical problems and teaching techniques  2  
meetings

272 Percussion Class (1)  
Playing percussion instruments, basic technical problems and teaching techniques  2  
meetings

273 Brass Class II (1)  
Playing horn and low brass, basic technical problems and teaching techniques  PREQ  
270  2 meetings

274 Woodwind Class II (1)  
Playing flute and double reeds, basic technical problems and teaching techniques  2  
meetings

283 MIDI/Synthesis Class (1)  
Topics, equipment, and pedagogy of MIDI/Synthesis  PREQ  152 and 177 or permission  
of instructor  2 meetings

284 Synthesizer Masterclass (1, R8)  
Group lessons in MIDI/Synthesis for secondary students  PREQ  181 and 182 or  
permission of instructor

348 Piano Class V, VI (1, 1)  
349 Continuation of 248 and 249  2 meetings
370 Ensemble (1, R12)
Performance in vocal and instrumental ensembles  
PREQ 175 or permission of department head

371 University Chorus (1, R8)
Study and performance of representative choral works, open to any student meeting eligibility requirements  
3 meetings  
PREQ 171 or permission of department head

372 Concert Choir (1, R8)
Audition required, public performances  
4 meetings  
PREQ 172 or permission of department head

373 Band (1, R8)
Performance in a wide variety of music in the marching, symphonic, and concert bands, open to any student meeting eligibility requirements  
4 meetings  
PREQ 173 or permission of department head

374 Orchestra (1, R8)
Experience for advanced strings, wind, and percussion players, formal concerts and performances  
PREQ 174 or permission of department head

448 Piano Class VII, VIII (1, 1)
Continuation of 348 and 349, must be elected in sequence until piano proficiency is satisfied, credit not applicable toward major requirements  
2 meetings

449 Graduate Courses

594 Topics in Music (1-3, R9)  
613 Applied Music (3, R9)
611 Applied Music (1, R4)  
675 Ensemble (1, R6)
612 Applied Music (2, R8,3, R9)

Natural Resources Management (NRM)

340 Natural Resource Measurements (4)
Basic land, climatic, hydrologic, and vegetative measurements used in resource management  
3 Lecture, 2 Lab

342 Microcomputer Applications in NRM (1)
Applications of spreadsheets, database management, and specialized computer software to problems in natural resources management  
1 Lab

344 Introduction to Geographic Information Systems (3)
Introduction to and applications of Geographic Information Systems in Natural Resources Management  
2 Lecture, 2 Lab

350 Foundations of Silviculture (4)
Principles of silviculture and their applications to the major forest types of the United States Site and management requirements of important tree species  
PREQ 340, BIOL 254, or permission of instructor  
3 Lecture, 2 Lab

352 Forest Resource Measurements (3)
Principles of applications in measuring forest resources Measurements of trees and stands for volume, quality, growth, land areas, and other forest resources  
PREQ 340, BIOL 254, or permission of instructor  
2 Lecture, 2 Lab

389 Cooperative Education in NRM (1 or 3, R15)
See Cooperative Education Program

440 Integrated Resources Management (4)
Natural Resources Management exercises, project and strategic planning, map and quantitative integration techniques, group dynamics  
PREQ 340, CS 101, or permission of instructor  
2 Lecture, 4 Lab
442 Natural Resources Policy and Administration (3)
Policy and administrative principles, case studies on the evolution of policy in the United States, current issues

450 Forest Management (4)
Principles of forest management at stand and forest levels, forest growth, regulation, harvesting, and multiple-use management  PREQ 340, BIOL 254, or permission of instructor 3 Lecture, 2 Lab

460 Watershed Management (3)
Principles of watershed management for analysis and control of water yield, timing, and quality in single and multiple-use situations  2 Lecture, 2 Lab

470 Land Suitability Classification (3)
Study and application of land suitability classifications systems  PREQ 340, GEOG 305, or permission of instructor 2 Lecture, 2 Lab

480 Independent Study (1-3, R6)
PREQ NRM major and permission of program coordinator

493 Topics in NRM (1-3, R6)
PREQ Permission of program coordinator

Nursing (NSG)

300 Nursing Ethics through the Life Span (1-3)
Moral problems of everyday nursing practice, emphasis on the nurse’s role in moral reasoning  PREQ Permission of instructor

301 Professional Transitions in Nursing (3)
The development of the profession and of professional nurse roles and the processes through which they are conducted  PREQ Admission to the nursing sequence

302 Health Promotion in the Community (3)
Families as recipients of nursing care, wellness and promotion of health for individuals, families, and other groups in the community  PREQ 301 or permission of instructor

340 Basic Nursing Skills (3)
Psychomotor nursing skills essential to the care and comfort of patients, scientific principles underlying nursing procedures  PREQ Admission to the nursing sequence 2 Lecture, 3 Lab

350 Dimensions of Professional Nursing (2)
The development of the profession and of professional nurse roles  PREQ Permission of instructor 1 Lecture, 1 Seminar

353 Nursing Science I (4)
Fundamental nursing processes and concepts, emphasis on health maintenance and wellness, the normal prenatal patient as a major model  PREQ Admission to the nursing sequence COREQ 383

355 Nursing Science II (4)
Concepts of health care introduced, influences of pathophysiology and psychopathology and appropriate nursing strategies for selected client models  PREQ 383 COREQ 385

360 Health Care of Women (2)
Review of women’s health care, the functions of women’s bodies, and personal responsibility for health
376 Health Promotion through the Life Span (2)
Emphasis on developmental tasks and common health needs To be taught off campus only  PREQ Admission to the nursing sequence

383 Clinical Practicum I (3)
Application of psychomotor skills, interpersonal and nursing processes to the care of individuals, emphasis on the nursing role in health maintenance  PREQ Junior standing  COREQ 353 9 Lab

384 Practicum in Community Health Nursing (3)
Application of wellness concepts and health promotion in the nursing care of families and other groups in community settings  PREQ 302 and 399 or permission of instructor 9 Lab

385 Clinical Practicum II (4)
Care of ill individuals and families in acute and home settings, nursing role in illness emphasized  PREQ 383  COREQ 355 12 Lab

386 Health Assessment and Promotion (3)
Application of concepts and processes to the care of well individuals, emphasis on the nursing role in health maintenance and promotion  PREQ Permission of instructor

389 Cooperative Education in Nursing (1 or 3, R15)
PREQ 355  See Cooperative Education Program

393 Topics in Nursing (1-3, R12)
PREQ Permission of instructor

399 Seminar: Professional Nursing Knowledge and Skills (2)
Registered nurse students demonstrate or provide documentary evidence of satisfactory level of competence in basic professional nursing knowledge and skills  S/U grading  PREQ Permission of instructor

405 Gerontological Nursing (1-3)
The aging process, health assessment and promotion in the aged, identification of frequent alternations in health and appropriate nursing interventions  To be taught off campus only  PREQ Permission of instructor

460 Nursing Leadership and Management (2)
Leadership theory in the management of clients, peers, and other healthcare providers in nursing service settings  PREQ 385 or permission of instructor 1 Lecture, 1 Seminar

466 Nursing Science III (5)
The influence of pathophysiology and psychopathology and appropriate nursing strategies for different and more complex client models, planning nursing care in hypothetical situations for the childbearing family, the hospitalized child and family, and the mentally ill client  PREQ 385  COREQ 486

467 Nursing Science IV (5)
Planning nursing care in hypothetical situations for the ill adult with complex healthcare problems, analysis of a selected community  PREQ 385  COREQ 487

470 Nursing Research (3)
Research design in the study of nursing problems, interpretation of research emphasized  PREQ Permission of instructor

475 Perspectives of the Nursing Profession (2)
The impact and implications of current and evolving trends on the future practice of nursing  PREQ Permission of instructor 1 Lecture, 1 Seminar
480 Independent Study (1-2, R6)
   PREQ Permission of instructor

481 Overview of Nursing (3)
   A review of concepts, principles, and nursing actions pertaining to clients across the life-span with a variety of healthcare needs. The processes of nursing, communication, and teaching-learning will be emphasized. PREQ 466 or 467 or permission of instructor. S/U Grading

483 Practicum in Clinical Management (3)
   Application of management principles in the care of clients with complex health problems. COREQ 460 or permission of instructor. 9 Lab

486 Clinical Practicum III (4)
   Application of nursing strategies to the care of the child-bearing family, the hospitalized child and family, and the mentally ill client. PREQ 385. COREQ 466. 12 Lab

487 Clinical Practicum IV (4)
   Application of wellness-illness concepts, nursing and other processes, and nursing skills with individuals and multiproblem families in complex healthcare agencies, experience in the managerial role of the nurse. PREQ 385. COREQ 467. 12 Lab

Nutrition and Dietetics (ND)

132 Nutrition for Everyday Living (3)
   Using nutritional information to make sound decisions about food intake

231 Food Science (4)
   Scientific principles of food preparation, effect of preparation practices on food quality and nutrient retention, storage and preservation principles. 3 Lecture, 3 Lab

300 Food Facts and Fads (3)
   Effects of food processing and preservation, safety of the food supply, food choices and health

330 Human Nutritional Needs (3)
   Principles of nutrition, needs throughout the life cycle, selection of well-balanced diets for health and well-being

334 Nutritional Applications (3)
   Application of nutritional principles to diet planning, nutrient analysis including computer-aided analysis, and nutritional assessment. PREQ 330 or permission of instructor. 1 Lecture, 4 Lab

336 Normal Nutrition (2)
   Principles of human nutrition, emphasizing nutrients and factors affecting utilization in the human body. PREQ BIOL 292, CHEM 133

337 Therapeutic Nutrition (2)
   Physiological and biochemical abnormalities in disease, principles of nutritional therapy. PREQ BIOL 292, CHEM 133

389 Cooperative Education in Nutrition (1 or 3, R15)
   See Cooperative Education Program

431 Food Preservation (3)
   Principles and procedures for food preservation, home methods, principles of home food sanitation and spoilage, food storage techniques. PREQ ND 231 or permission of instructor. 2 Lecture, 2 Lab
433 Methods in Human Nutrition and Foods (3)
Standard procedures for nutrient analysis, including proximate analysis of foods, determination of individual health and nutrient status, introductory experimental design and methodology  PREQ 334, CHEM 133, or permission of instructor  1 Lecture, 6 Lab

434 Experimental Methods of Foods (4)
Techniques of sensory, physical, and objective evaluation in scientific foods and food products experimentation  PREQ ND 231, CHEM 133  2 Lecture, 4 Lab

436 Advanced Human Nutrition (4)
Normal nutrition related to biochemical and physiological functioning, interrelationships of nutrients and their effect on body needs  PREQ 334, BIOL 292, CHEM 133

437 Diet Therapy (3)
Mechanisms by which food contributes to maintenance of health, prevention of disease, and correction of nutritional disorders  PREQ 436 or CHEM 133, BIOL 292

439 Introduction to Professional Practice (3)
Introduction to professional ethics, conduct in patient care, utilization of laboratory values, nutritional assessment, and dietary management  COREQ 437  2 Lecture, 3 Clinical

480 Independent Study in Nutrition (1-3, R6)
PREQ Permission of instructor

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student’s career field
485 S/U grading  PREQ Permission of instructor  9 hours per week per course

Graduate Courses
531 Food Preservation (3)
533 Methods in Human Nutrition and Foods (3)
534 Experimental Methods of Foods (4)
536 Advanced Human Nutrition (3)
537 Diet Therapy (3)
538 Clinical Experience in Dietetics (1)
539 Introduction to Professional Practice (3)
630 Nutrition Throughout the Life Cycle (3)
635 Nutrition Education (3)
636 Protein, Carbohydrates and Lipids (3)
637 Advanced Diet Therapy (3)
638 Community Nutrition (3)
639 Vitamins and Minerals (3)
681 Practicum in Clinical Dietetics (3, R6)
682 Practicum in Administrative Dietetics (3, R6)
683 Practicum in Community Dietetics (3)
693 Topics in Nutrition and Food Science (1-3, R9)

Office Administration and Business Education (OA)

231 Keyboarding/Word Processing I (3)
Keyboard control and technique, business letters, memoranda, manuscripts, and tabulation  Students with two years of highschool typewriting are not eligible to enroll in 231

293 Topics in Office Administration (1-3, R6)

300 Word Processing II (3)
Word processing skill development and application using electronic typewriters and microcomputers  PREQ 231 or equivalent

304 Business Communications (3)
Application of written, oral, and interpersonal communication theory in business  PREQ ENGL 102

310 Business and Office Education (2)

340 Information Processing Systems (3)
Information processing and interpretation, use of the information processor, computer, and microcomputer, systems design, organizational implications  PREQ 231 or equivalent  2 Lecture, 2 Lab
389 Cooperative Education in Office Administration (1 or 3, R15)
   See Cooperative Education Program

393 Topics in Office Administration (1-3, R6)

401 Office Systems and Simulations (3)
   Organization, supervision, and related office administration responsibilities, office
   simulations  PREQ 300

402 Administrative Management and Policy (3)
   Systems analysis, leadership and human relations, and control of office operations

403 Business Research and Reports (3)
   Identification of research problems, collecting and analyzing data, presenting findings
   for decision making

415 Administration of Business Education Programs (3)
   Administration, supervision, and coordination of business and office education pro-
   grams

483 Internship in Business and Office Education (3, 3, 3)
484 Supervised work experience in applications of previously studied theory  S/U grading
485 PREQ  Junior standing, 2 0 GPA, permission of department head  Minimum of 10
   hours per week

Graduate Courses
601 Trends and Issues in Business Education (3)  683 Internship in Vocational Business Education (3)
602 (ET & HE 602) Vocational Education History  684 Internship in a Business Firm (1-3)
   and Philosophy (3)  693 Topics in Business and Office Education (1-3, R9)
603 Research in Business Education (3)  695 Seminar in Business and Office Education (3)
605 Managerial Communication (3)

Parks and Recreation Management (PRM)

150 Career Opportunities in Parks and Recreation (1)
   Exploration of varied career opportunities, career planning advisement, professional
   values and requirements, exposure to professionals in the field  2 Lab/discussion/
   demonstration

250 Foundations of Parks and Recreation Management (3)
   Historical and philosophical development, emphasizing natural and cultural resources,
   current practice settings  PREQ 150 or permission of instructor  2 Lecture, 2 Lab

255 Special Events Planning and Promotion (3)
   Approaches and techniques for planning and promoting fairs, festivals, concerts,
   lectures, benefits, exhibits, campaigns, award ceremonies, and tours  PREQ  Permis-
   sion of instructor  2 Lecture, 2 Lab

270 Theories of Recreation Program Planning and Leadership (3)
   Group dynamics and leadership techniques, planning and directing programs in various
   service settings

321 Outdoor Education (3)
   Theory and principles of outdoor education as an interdisciplinary approach to learning
   in a recreational or educational setting

350 Interpretation of Natural and Cultural Resources (3)
   Study and practice in techniques of designing, producing, and presenting interpretive
   materials and programs, evaluation of commercial and self-made resources  PREQ
   Permission of instructor  2 Lecture, 2 Lab
370 Internship Orientation (1)
Orientation to the internship, readings, agency contract, preparation of personnel records, supervised field work  
PREQ Permission of instructor  
2 Lab/discussion/demonstration

383 Internship in Parks and Recreation Management (1-3, R3)
SU grading  
PREQ Permission of program coordinator  
Minimum of 3 hours per credit hour

389 Cooperative Education in PRM (1 or 3, R15)
See Cooperative Education Program

430 Commercial Recreation (3)
Survey of specific commercial recreation enterprises, their unique opportunities and socio-economic-political impact  
PREQ Permission of instructor  
2 Lecture, 2 Lab

431 Maintenance of Sites and Facilities (3)
Principles and practices in planning and organizing maintenance programs in recreational settings  
2 Lecture, 2 Lab

433 Outdoor Recreation (3)
The social, economic, and political foundations of outdoor recreation, recreation sites, recreation resource policy  
PREQ Permission of instructor  
2 Lecture, 2 Lab

434 High Adventure Travel and Outfitting (3)
History, development, and organization of these activities  
PREQ Permission of instructor  
2 Lecture, 2 Lab

435 Park and Recreation Sites, Facilities, and Programs (1-6, R6)
Planned tour to study specific types of parks and recreation sites, facilities, and/or programs related to current issues and practices  
1 Lecture or 2 Lab per credit hour

436 Tour Planning and Organization (3)
Analysis of how to develop itineraries and price, finance, contract, advertise, market, and escort tours  
PREQ Permission of instructor  
2 Lecture, 2 Lab

437 Travel Agency Management (3)
Current principles, issues, and practices related to the management of contemporary travel agencies  
PREQ Permission of instructor  
2 Lecture, 2 Lab

440 Travel and Tourism (3)
The travel and tourist industry, national and international, locational characteristics, terminology, demographics, economic impact and trends, attitudes and skills required  
PREQ Permission of instructor  
2 Lecture, 2 Lab

450 Elements of Parks and Recreation Planning (3)
Elements of site and facility planning and design, methods and techniques, preparation of a site development plan  
PREQ Permission of instructor  
2 Lecture, 2 Lab

460 Management of Natural and Cultural Resources (3)
Analysis of specific considerations and techniques in recreation resource and visitor management, historical conservation and restoration, management problems  
PREQ Permission of instructor  
2 Lecture, 2 Lab

461 Community Recreation Management (3)
History, principles, organization, and supervision of community programs, personnel functions, agency coordination  
PREQ 250 or permission of instructor  
2 Lecture, 2 Lab
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>480</td>
<td>Independent Study (1-3, R6)</td>
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<td>PREQ Permission of program coordinator</td>
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<tr>
<td>483</td>
<td>Internship in Parks and Recreation Management (3, 3, 3)</td>
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<tr>
<td>484</td>
<td>Placement in a cooperating agency to relate classroom learning to practice (S/U grading)</td>
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<td>PREQ 370, 2.0 GPA, permission of program coordinator, 9 hours per week per course</td>
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<tr>
<td>493</td>
<td>Topics in Parks and Recreation Management (1-3, R6)</td>
<td></td>
<td>PREQ Permission of program coordinator 1 Lecture, 2 Lab</td>
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<tr>
<td>495</td>
<td>Seminar in Parks and Recreation Management (1)</td>
<td></td>
<td>Current trends and issues, individual research topics, employment decision making, graduate school advisement, presentation of internship experience PREQ Permission of instructor 2 Lab/discussion</td>
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### Graduate Courses

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<th>Prerequisites</th>
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<tr>
<td>540</td>
<td>Travel and Tourism (3)</td>
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<tr>
<td>550</td>
<td>Elements of Parks and Recreation Planning (3)</td>
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<tr>
<td>560</td>
<td>Management of Natural and Cultural Resources (3)</td>
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<tr>
<td>561</td>
<td>Community Recreation Management (3)</td>
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<td></td>
</tr>
<tr>
<td>580</td>
<td>Independent Study (1-3, R6)</td>
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### Philosophy (PHIL)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tr>
<td>101</td>
<td>Western Philosophical Traditions (3)</td>
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<td>Examination of ways in which philosophers have interpreted reality, knowledge, and the nature of values (P3a)</td>
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<tr>
<td>201</td>
<td>(300) Logic and Its Uses (3)</td>
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<td>Principles and problems of reasoning, analysis and evaluation of arguments on philosophical, social, and scientific issues (F3)</td>
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<tr>
<td>231</td>
<td>Introduction to Ethics (3)</td>
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<td>A treatment of questions of ethical values as they appear in both contemporary and historical contexts</td>
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<tr>
<td>232</td>
<td>Introduction to Symbolic Logic (3)</td>
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<td>Propositional and predicate logic, logic of modality, theory of logic</td>
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<tr>
<td>304</td>
<td>Ancient Philosophy (3)</td>
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<td>The Pre-Socratics, Plato, and Aristotle</td>
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<tr>
<td>305</td>
<td>Medieval Philosophy (3)</td>
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<td>Selected medieval philosophers, such as Augustine, Anselm, Averroes, Maimonides, Bonaventure, Aquinas, Scotus, and Ockham</td>
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<tr>
<td>306</td>
<td>Modern Philosophy (3)</td>
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<td>Sixteenth to eighteenth centuries: the British empiricists and Continental rationalists</td>
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<tr>
<td>307</td>
<td>Nineteenth-Century Philosophy (3)</td>
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<td>Kant, Hegel, and other selected nineteenth-century philosophers, such as Fichte, Marx, Mill, Kierkegaard, and Nietzsche</td>
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<tr>
<td>308</td>
<td>Contemporary Philosophy (3)</td>
<td></td>
<td>Selected movements in contemporary philosophy, such as analytic philosophy, existentialism, phenomenology, process philosophy, and pragmatism</td>
<td></td>
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<tr>
<td>310</td>
<td>Philosophy of Art (3)</td>
<td></td>
<td>Consideration of ways of making reflective claims about art, emphasis on development of a personal viewpoint</td>
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</table>
311 Philosophy of Science (3)
The structure of scientific explanation and discovery, the cognitive status of scientific theories, relations between the various natural and social sciences

312 Philosophy of Religion (3)
Selected topics, such as proofs for the existence of God, immortality, the problem of evil, and the nature of religious belief, action, and experience

320 Ethics and the Professional (3)
Moral aspects of questions encountered by members of professional communities, including medicine, law, business, and engineering

330 American Philosophy (3)
Study of major philosophers in America, James, Dewey, Peirce, Mead, Whitehead, Santayana, and Lewis

340 Epistemology (3)
Primary problems in the theory of knowledge in Western philosophy  PREQ 3 hours in philosophy excluding 101 and 201, or permission of instructor

341 Metaphysics (3)
Central metaphysical issues in Western philosophy  PREQ 3 hours in philosophy excluding 101 and 201, or permission of instructor

393 Topics in Philosophy (1-3, R6)
PREQ Permission of instructor

493 Seminar in Philosophy (3, R9)
PREQ 6 hours in philosophy, excluding 101 and 201, or permission of instructor

Graduate Courses
593 Topics in Philosophy (1-3, R6)

Physical Education (PE)

102 Basic Water Safety Skills (1)
Basic water skills for beginning swimmers, Level III Stroke Readiness, American Red Cross swimming outline  2 meetings (F5)

103 Intermediate/Advanced Swimming and Aquatic Sports (1)
Swimming strokes and diving, American Red Cross Level VII Skills, water polo, basketball and volleyball skills rules and strategy  PREQ 102 or equivalent 2 meetings (F5)

104 Lifesaving (1)
American Red Cross outline, applicable toward lifesaving certification  PREQ 103 or equivalent 2 meetings (F5)

105 Water Safety Instructor Training (1)
American Red Cross outline for WSI Certificate  PREQ Red Cross Level VII Advanced Skills, or PE 103 3 meetings (F5)

106 Scuba Diving (1)
Snorkel and scuba  PREQ 103 or equivalent 2 meetings (F5)

107 Synchronized Swimming (1)
Creative patterns and movement with music  PREQ 103 or equivalent 2 meetings (F5)

108 Canoeing (1)
PREQ 103 or equivalent 1 two-hour meeting (F5)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Meetings</th>
</tr>
</thead>
<tbody>
<tr>
<td>113</td>
<td>Hiking (1)</td>
<td>Safety and skills for organizing hiking and backpacking trips for small groups, clothing and equipment, map and compass, choosing hiking areas, weekend trips as arranged</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>114</td>
<td>Jogging (1)</td>
<td>Principles and physiological benefits of running and aerobic exercise</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>115</td>
<td>Weight Training (1)</td>
<td>Execution of various lifts, isotonic exercises, related health and safety factors</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>116</td>
<td>Slimnastics (1)</td>
<td>Exercise and weight control, correlation of proper exercise to body proportions</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>117</td>
<td>Wrestling (1)</td>
<td></td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>118</td>
<td>Aerobic Dance (1)</td>
<td>A physical fitness program utilizing simple dance routines and exercises</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>122</td>
<td>Beginning Tennis (1)</td>
<td></td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>123</td>
<td>Beginning Golf (1)</td>
<td></td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>124</td>
<td>Handball (1)</td>
<td>One-wall and four-wall handball</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>125</td>
<td>Racquetball (1)</td>
<td>One-wall and four-wall racquetball</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>126</td>
<td>Bowling (1)</td>
<td></td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>127</td>
<td>Badminton (1)</td>
<td>Singles and doubles games</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>129</td>
<td>Archery (1)</td>
<td></td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>202</td>
<td>Casting (1)</td>
<td>Bait, spin, and fly casting, fundamentals and care of equipment</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>203</td>
<td>Gun Handling (1)</td>
<td>Shooting techniques, positions, gun laws, care of equipment</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>204</td>
<td>Snow Skiing (1)</td>
<td></td>
<td>Meetings as announced (F5)</td>
</tr>
<tr>
<td>205</td>
<td>Modern Dance and Choreography (1)</td>
<td>Dance as an art form and a physical activity, elements of composition for expressive, creative, rhythmic movement</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>206</td>
<td>Social, Line, and Folk Dance (1)</td>
<td>Skills, control, poise required in social, line, and folk dances</td>
<td>2 meetings (F5)</td>
</tr>
<tr>
<td>207</td>
<td>Fencing (1)</td>
<td></td>
<td>2 meetings (F5)</td>
</tr>
</tbody>
</table>
209 Advanced Tennis (1)  
PREQ 122 or permission of instructor 2 meetings (F5)

210 Advanced Golf (1)  
PREQ 123 or permission of instructor 2 meetings (F5)

214 Tumbling and Rebound Tumbling (1)  
Tumbling and floor exercises, trampolining 2 meetings (F5)

215 Gymnastic Apparatus (1)  
Long horse vault, parallel bars, horizontal bar, rings, side horse, uneven parallel bars, balance beam, and vault 2 meetings (F5)

223 Soccer and Basketball (1)  
2 meetings (F5)

224 Field Hockey (1)  
2 meetings (F5)

225 Volleyball and Softball (1)  
2 meetings (F5)

226 Tag Football and Team Handball (1)  
2 meetings (F5)

227 Track and Field (1)  
2 meetings (F5)

228 Adapted Physical Education (1, R3)  
Remedial and therapeutic activities  PREQ Permission of instructor and recommendation of a physician 2 meetings (F5)

230 Ice Skating (1)  
Mechanical principles of ice skating, history, equipment, safety of ice skating as a recreational activity 2 meetings (F5)

231 Aquarobics (1)  
Pool-based non-swimming aerobic activity for all ages and fitness levels 2 meetings

Major Courses

130 Lifeguard Training (1)  
American Red Cross outline for lifeguarding certificate  PREQ PE 103 or equivalent 3 meetings

131 Lifeguard Instructor (1)  
American Red Cross outline for Lifeguard Instructor  PREQ Must hold current Red Cross Lifeguarding Certificate 2 Lab

150 Career Opportunities (1)  
A lecture/discussion series featuring selected professionals from various employment settings in health, physical education, and therapeutic recreation

213 Introduction to Athletic Training (3)  
Prevention of injuries, bandaging and the treatment of basic injuries in varsity athletics

250 Elementary School Physical Education Curriculum (2)  
Physical education in relation to the total curriculum

251 Dance Dynamics (3)  
Methods and materials in creative rhythms, singing games, folk dances, and modern dance 2 Lecture, 2 Lab
261 Skill Acquisition I, II, III (1, 1, 1)
Fitness activities aquatic, aerobic, and weight training skills in 261,
individual activities stunts/tumbling, tennis, and golf skills in 262, team
activities volleyball, soccer, and field hockey skills in 263 3 meetings

265 Sports Officiating I, II (2,2)
Rules, techniques, and mechanics in sports officiating, football, softball, baseball in
265, basketball, volleyball, soccer in 266

310 Management of Physical Education and Sport Activity (2)
Study of management functions of physical education, intramurals, and sport
programs 2 Lecture, 1 Lab

311 (HEAL 311) Measurement and Evaluation (2)

312 Foundations of Health and Physical Education (3)
The basic physiological, psychological, and sociological principles and historical
foundations

313 Psychological Aspects of Sport (3)
The psychological aspects of sport and coaching methods

314 Organization and Administration of Camping (3)
The nature of camping, trends, elements of camp design and management.

316 Administration of Recreational Agencies (2)
Organizational theory, facility, program, and personnel management in private and
commercial recreational agencies  PREQ  Permission of instructor

325 Physical Education Curriculum and Methods (3)
Class management, teaching methods, and program content for grades K-12
Majors must be admitted to the professional education sequence Minors by permission
of instructor

330 Aquatic Recreation Management (3)
Organization, programming, facility design, and maintenance in various aquatic recrea-
tional environments  Course may lead to Certified Pool Operator certification

335 Anatomy and Physiology (4)
The study of the structure and function of the human body  PREQ  BIOL 134 3 Lecture, 1 Lab

345 Elementary Physical Education (3)
developmental approach to physical education for the elementary school program 2
Lecture, 2 Lab

353 Methods and Teaching Analysis of Team and Individual Sports (3)
Methods, materials, and skills used in teaching sports soccer, tennis, volleyball, and
tumbling 2 Lecture, 2 Lab

360 Skills in Promoting Healthful Living (3)
A competency-based course of methods and materials in health, first-aid/safety, and
physical education for the elementary school program 2 Lecture, 1 Lab

380 Independent Study (1-3)
A topic in health, physical education, or recreation agreed upon by student and
instructor  PREQ  ENGL 102, permission of department head

383 Instructional Apprenticeship (1, R3)
Apprenticeship to develop teaching and leadership skills before student teaching
PREQ  Physical education major, permission of instructor 3 hours per credit hour
389 Cooperative Education in PE and Sports (1 or 3, R15)
See Cooperative Education Program

400 The Elementary Physical Education Curriculum (3)
Basic beliefs, guidelines for learning, nature of the learner, developing and implementing effective programs

405 Outdoor Leisure Pursuits (1)
Application of principles of outdoor skills to planning, implementing, and evaluating K-12 school programs 1 Lecture, 2 Lab

410 Coaching Baseball and Football (3)
History, methods, materials, skills, and strategies of coaching baseball and football 4 meetings

411 Coaching Basketball, Track, and Field (3)
Methods, materials, skills, and strategies for women's and men's basketball and track and field 4 meetings

413 Athletic Injury Assessment (3)
A concentrated study on athletic injury assessment and rehabilitation PREQ 213

415 Physical Education for the Mentally Retarded (2)
Survey of activities and administration of physical education programs for the mentally retarded

418 Coaching Softball, Volleyball, and Gymnastics (3)
Methods, materials, skills, and strategies of coaching softball, volleyball, and gymnastics 2 Lecture, 2 Lab

423 Kinesiology (2)
Structure and function of the human muscular system as related to sports and activities PREQ 335

424 Methods in Adaptive Physical Education (2)
Physical injuries, disabilities, illnesses, experience in analysis and application of therapeutic modalities PREQ 423 or permission of instructor

425 Exercise Physiology (2)
The study of the acute and chronic effects of exercise on the human body PREQ 335 2 Lecture, 1 Lab

435 Motor Learning (2)
Analysis of the various theories related to motor learning, including equipment, evaluation techniques, and application in an educational environment 3 Lecture

493 Special Topics (3, R6)
Trends and issues in physical education, sport management, and recreation

Graduate Courses
512 Physical Education for the Mentally Retarded (2)
514 Camp Leadership (2)
600 The Elementary Physical Education Curriculum (3)
615 Legal Issues for the Physical Educator, Coach and Sport Administrator (3)
621 Research in Health, Physical Education, Recreation, and Dance (3)
630 Principles of Physical Education (3)

640 Administration of Physical Education (3)
650 Physiology of Motion (3)
660 Scientific Foundation of Physical Activity (3)
665 Exercise Testing and Prescription (3)
675 Issues in Intramurals and Athletics (3)
676 Research Techniques in Exercise Physiology (3)
694 Special Problems (1-3)
696 Seminar and Practicum in Physical Education (3)
699 Thesis (3, R6)
Physics (PHYS)

105 Contemporary Physics (4)
Basic ideas in mechanics, heat, light, sound, electricity and magnetism, atomic and nuclear physics, applications in today's society 3 Lecture, 2 Lab (F2)

110 (310) Physical Science (3)
The basic properties of matter studied experimentally to lead to the establishment of the atomic model 4 Lecture/Lab (F3)

130 Introductory Physics (4, 4)
131 Noncalculus-based treatment of motion, force, energy, heat, electricity, magnetism, light, and modern physics PREQ MATH 130, 130 for 131 3 Lecture, 2 Lab

230 General Physics (4, 4)
231 Calculus-based study of mechanics, thermodynamics, electricity and magnetism, optics, and modern physics PREQ MATH 153 for 230, 230 for 231 3 Lecture, 3 Lab

302 Electronics (4)
Circuit theory, discrete devices, amplifiers, operational amplifiers, integrated circuits, and digital techniques PREQ 131 and a course in differential and integral calculus 3 Lecture, 3 Lab

310 Modern Physics (3)
Special relativity, quantum physics, the wave nature of matter, atomic and nuclear structure, and elementary particles PREQ 131 or 231, MATH 140 or 153

320 Mathematical Methods of Physics (3)
Complex numbers and functions, series, Fourier series, cylindrical and spherical polar coordinate systems, ordinary and partial differential equations PREQ 131 or 231, MATH 255

322 Optics (4)
Geometrical and physical optics, introduction to quantum optics PREQ 131, MATH 255 3 Lecture, 3 Lab

325 Thermodynamics (3)
Classical theory of heat, first and second laws of thermodynamics, enthalpy, entropy, introductory kinetic theory and statistical thermodynamics PREQ 131, MATH 256

350 Atomic Physics (4)
Quantum phenomena, potentials, introductory quantum mechanics, one electron and multiple electron atoms, molecules, introduction to solids PREQ 310, MATH 256

360 Laboratory Physics (2)
Intermediate experiments in modern physics PREQ 131 or 231

370 Solid State Physics (3)
Phenomenological treatment of the properties of crystalline solids, relationships of properties to the function of solids in modern electronic devices PREQ 131, MATH 256

380 Research in Physics (2; R8)
Physics research projects for individual students PREQ Permission of instructor

389 Cooperative Education in Physics (1 or 3, R15)
See Cooperative Education Program

410 Classical Mechanics (3)
Topics in analytical mechanics using vector operators and differential equations PREQ 320 or MATH 256
420 Nuclear Physics (3)
Nuclear decay, models, reactions, fission, fusion, lab techniques of instrumentation, gamma spectra, particle techniques. PREQ 131 or 231 and a course in differential and integral calculus. 2 Lecture, 3 Lab

440 Electricity and Magnetism (3)
Topics in electricity and magnetism using vector operators and differential equations. PREQ 410 and 320 or MATH 320

493 Topics in Physics (2-4)
PREQ 350, 412, or permission of department head

495 Seminar in Physics (1)
S/U grading

Graduate Courses
601 Topics in Physics Education I, II (3,3)
602

Political Science/Sociology (PSOC)

105 (305) Current Political and Social Issues (3)
Analysis of selected social problems and proposed solutions in the light of contrasting political perspectives (conservative, liberal, and radical). (F3)

Political Science (PSC)

106 (300) American Politics and Issues (3)
Analysis of current political institutions and their development within the cultural setting, associated problems and interrelationships with other social institutions. (P1b)

107 (301) Comparative Political Cultures (3)
Impact of cultural differences on the policies and political perspectives of various First-, Second-, and Third-World nations, comparison and contrast of contemporary examples. (P4)

108 Global Issues in Politics (3)
Analysis of major international issues influencing the development of recent history. (P5)

231 American Government and Politics (3)
The American political system, introduction to government institutions and how politics shapes policies.

302 Problems and Policies of American Government (3)
Alternative public policies in selected areas: social welfare, health care, resources, labor, agriculture, civil rights, business, taxation, defense, and education.

303 State and Local Government (3)
Structure and functions of state and local government, processes of policy formation.

304 Public Administration (3)
Administrative theory and practice, implementation of governmental policies, case studies of the administrative process in such areas as business regulation, health care, and law enforcement.

305 Congress (3)
Congress as an institution, its role in the formulation of national policies, case studies dealing with legislation in the various areas of national policy.
306 American Presidency (3)
The chief executive, his advisers, role playing, and decision making in the executive branch

307 Civil Service Administration (3)
Policies, methods, and techniques used in civil service systems, problems and procedures in the public sector, local, state, and national

309 The Politics of Budgeting (3)
Budgetary aspects of national, state, and local government operations, budget formulation, execution and enactment, revenue resources, politics of process

310 Constitutional Law: Structure and Powers (3)
Analysis of judicial review, constitutional powers of the branches of government, federalism, sources of regulatory authority, and constitutional protection of political rights

315 European Political Systems (3)
Comparison of the political systems of selected nations

316 Politics of Developing Areas (3)
Comparative analysis of developmental processes pursued through political, military, economic, and administrative structures of Third-World nations, case studies

317 Politics of East Asia (3)
Selected political systems of East Asia, factors involved in political change and modernization

318 Soviet Political System (3)
The making of domestic and foreign policy by the Communist Party as a respondent to and a representative of the Russian political culture

319 Latin American Political Systems (3)
Institutions, groups, parties, and processes, problems of political development, modernization, and change

331 International Politics (3)
Components and characteristics of the international political system, conflict and cooperation in international relations, changing nature of international behavior

332 International Organization (3)
Global and regional organizations promoting settlement of disputes, collective security, economic development, human rights, self-government

333 International Law (3)
Rules and practices regulating such matters as state territory and jurisdiction, treaties, nationality and treatment of aliens, diplomatic and consular relations, warfare

334 United States Foreign Policy (3)
Policies governing America's foreign relations, personnel and agencies responsible for policy implementation, role of the United States in world affairs since World War II

335 Problems in World Politics (3)
Contemporary issues in international politics, international problem-solving methods and applications

336 Mass Media and American Politics (3)
Examination and assessment of the power and influence of the mass media in American politics, emphasis on television

345 Ancient and Medieval Political Thought (3)
Political philosophers from Plato to Thomas Aquinas, their ideas examined and related to current issues
346 Modern Political Thought (3)
Political philosophers from Machiavelli to Mill, ideas providing the basis of modern political discussion and controversy examined

347 American Social and Political Eras (3)
American social and political ideas from the Federalist Papers to the present

348 Political Analysis (3)
Research methods and theoretical approaches for describing, explaining, and solving domestic and foreign policy problems. PREQ 231 or permission of instructor

349 Simulation and Gaming (3, R6)
Development, use, and direction of machine and nonmachine games and simulations in the instruction, exposition, and research of political phenomena

389 Cooperative Education in Political Science (1 or 3, R15)
See Cooperative Education Program

407 American Political Parties (3)
American political parties and their role in the government and politics of contemporary society, current national issues dividing the parties

409 National Security Policy (3)
Substance and processes of strategy and policy making, relationship of power to foreign policy. PREQ 231 or permission of instructor

411 Civil Rights and Liberties (3)
Judicial interpretation of the First Amendment, rights of the accused and racial minorities, right of privacy

421 Political and Organizational Leadership (3)
Concepts and processes of leadership related to political and public organizations. PREQ 6 hours in political science or permission of instructor

436 Dynamics of World Order (3)
Alternative approaches to meeting social and political needs in a changing global environment, conditions and practices of interdependence

449 Political Socialization (3)
Social and psychological processes related to the development of political values and ideas

480 Readings in Political Science (3)
PREQ Departmental permission

483 Internship in Political Science (3, 3, 3)
Work experience in a government or community agency applying academic studies. S/U grading. PREQ Permission of department head. 9 hours per week per course

493 Contemporary Political Systems (3, R6)
Problems in the structure and functions of selected political systems reflected against their political cultures

494 Seminar, American Political Systems (3)
Current issues in American government and politics

495 Honors Seminar (3)
Enrollment by invitation only, preference given to seniors
Graduate Courses
507 American Political Parties (3)  549 Political Socialization (3)
509 National Security Policy (3)  580 Reading in Political Science (3)
511 Civil Rights and Liberties (3)  593 Contemporary Political Systems (3, R6)
521 Political and Organizational Leadership (3)  595 Seminar The American Political System (3)
536 Dynamics of World Order (3)  693 Topics in Political Science (1-6, R9)

Psychology (PSY)

101 (301) Perspectives on Human Behavior (3)
Applications of basic methods of study and knowledge of human behavior in relation to the social, cultural, and physical environment (Pla)

105 (305) Thinking, Reasoning, and Expression (3)
Practice in problem solving, using mental imagery, applying critical thinking, analyzing the components of reasoning and valuing, and generating and evaluating solutions (P3)

250 General Psychology (3)
Overview of psychology and the scientific study of behavior, topics in social, abnormal, and developmental physiological psychology, and personality, sensation, perception, and learning

251 Research Methods I Statistics (3)
Statistical description and inference, central tendency and variability, correlational measures, parametric and nonparametric tests of significance PREQ An algebra course

252 Research Methods II- Experimentation (3)
Naturalistic observation and correlational research, research designs and statistics, ethical issues, data collection and analysis, writing formal papers PREQ 250 or permission of instructor, 251

260 Introduction to Gerontology (3)
Introduction to the field of Gerontology

280 Research in Psychology I (1-3, R3)
Introductory-level supervised bibliographical or research activity S/U grading PREQ Permission of instructor

293 Contemporary Issues in Psychology (1, R3)
A forum for topics of current interest in psychology

310 Social Psychology (3)
Social influences on individual behavior, feelings, and thoughts, social-psychological approaches to problems of attitudes, conformity, leadership, and other group phenomena PREQ 250 or permission of instructor

313 Organizational and Industrial Psychology (3)
Structure, methods, techniques, and application of psychological concepts to human problems of work in organizations PREQ 250 or permission of instructor

320 Child and Adolescent Development (3)
Theories and principles of development from conception through adolescence PREQ EDCI 231 and admission to professional-education sequence or permission of the psychology department head, field experience required

321 Educational Psychology (3)
Application of psychological principles to teaching, cognition, learning, motivation, measurement, individual differences, and behavior management PREQ EDCI 231, PSY 320, and admission to professional education sequence or permission of the psychology department head, field experience required
324 Development: Conception through Adolescence (3)
Theories and principles of physical, cognitive, emotional, and social development of human beings from conception through adolescence PREQ 250 or permission of instructor

325 Development: Early Adulthood through Maturity (3)
Physiological, cognitive, emotional, psychological, and social development after adolescence PREQ 250 or permission of instructor

327 Psychology of Aging (3)
The process of aging during the later years, biological, psychological, and cognitive changes, theories of aging, counseling approaches PREQ 250 or permission of instructor

331 Human Sexuality (3)
Physiological, biochemical, psychological, social, and legal aspects of human sexual behavior

333 Psychology of Sex Differences (3)
Development of sex differences and similarities in cognition, personality, and social behaviors, the role of physiological, social, and cultural factors PREQ 250 or permission of instructor

343 Sensation and Perception (3)
Analysis of the sensory and perceptual systems, review of theories and research on how visual and auditory stimuli are analyzed and interpreted by the brain PREQ 250

360 Psychological Testing (3)
History, theory, and practice of measurement, test development and standardization, evaluation of intelligence, achievement, aptitude, and personality PREQ 250 or permission of instructor

363 Behavioral Intervention (3)
A survey of behavioral theory covering both nonmediational and mediational approaches Applications of behavioral theory to a variety of difficulties including school and clinical settings PREQ 250 or permission of instructor

389 Cooperative Education in Psychology (1 or 3, R15)
See Cooperative Education Program

393 Topics in Psychology (3, R9)
PREQ 250 or permission of instructor

410 Individual Psychology (3)
Theory and practice related to self-understanding, problem solving, and interpersonal relationships PREQ 250 and 6 hours of psychology or permission of instructor

412 Attitudes and Public Opinion (3)
Attitude structure and functions, attitude-behavior controversy, attitude change, public opinion and mass communication PREQ 250 or permission of instructor

426 Death and Dying (3)
Psychological foundations and correlates of death anxiety and grief, cross-cultural perspectives, death education and stages in children's awareness, coping with grief and fears PREQ 250 or permission of instructor

430 Personality (3)
Assumptions, constructs, and theories of personality, related empirical findings PREQ 250 or permission of instructor

440 Physiological Psychology (3)
Physiological and biochemical bases of behavior, sensation, neurophysiological correlates of learning, memory, sleep, other topics PREQ 250 or permission of instructor
**Health Psychology (3)**

Psychological foundations of health and illness, exploration of the impact of thoughts, emotions, and behavior on the development, treatment, and prevention of illness and the maintenance of health. PREQ 250 or permission of instructor.

**Language, Memory, and Cognition (3)**

Theories and principles of human information-processing, language production and comprehension, basic processes in memory and cognition. PREQ 250 or permission of instructor.

**Human Neuropsychology (3)**

Survey of the basic theories of neuropsychology, emphasizing both cognitive and clinical research. The course will focus on the influence of the human brain on normal and abnormal behavior. PREQ 250 or permission of instructor.

**Systems and Theories in Psychology (3)**

Systematic survey of psychology as a scientific endeavor from early approaches to contemporary schools and trends. PREQ 250 or permission of instructor.

**Crisis Intervention (1)**

Theory and nature of crises, intervention strategies for dealing with a variety of crises such as physical assault, rape, suicide, and natural disasters.

**Abnormal Psychology (3)**

Theories of psychopathology, etiology, dynamics, symptomatology, diagnosis, and treatment. PREQ 250 or permission of instructor.

**The Emotionally Disturbed Child and Adolescent (3)**

Etiology, characteristics, assessment, and treatment of deviation, learning difficulties, behavioral and psychotic disorders, problems of the handicapped. PREQ 250 or permission of instructor.

**Research in Psychology (1-6, R6)**

Supervised research experiences for advanced students. S/U grading. PREQ 250, 251, 252, permission of instructor.

**Internship in Psychology (3, 3, 3, 3)**

Application of theory, methods, and techniques in a cooperating agency under faculty supervision. PREQ 20 GPA, 20 hours of psychology, and a course in methods of counseling, or permission of instructor. 9 hours applicable to major. 10 hours per week per course.

**Senior Seminar in Psychology (3)**

Overview of the history and current state of psychology. Discussions of important facts, issues, concepts, and theoretical perspectives in psychology. PREQ Senior status as a psychology major.

**Graduate Courses**

- 510 Individual Psychology (3)
- 512 Attitudes and Public Opinion (3)
- 515 Community Psychology (3)
- 526 Death and Dying (3)
- 530 Personality (3)
- 540 Physiological Psychology (3)
- 541 Health Psychology (3)
- 544 Language, Memory, and Cognition (3)
- 548 Human Neuropsychology (3)
- 555 Systems and Theories in Psychology (3)
- 570 Abnormal Psychology (3)
- 574 The Emotionally Disturbed Child and Adolescent (3)
- 610 Advanced Social Psychology (3)
- 612 Group Dynamics (3)
- 621 Advanced Educational Psychology (3)
- 624 Child Development (3)
- 625 Adolescent Development (3)
- 626 Adulthood and Aging (3)
- 651 Advanced Research Methods (3)
- 652 Advanced Research Proposal Writing (1)
- 661 Psychological Assessment I (4)
- 662 Personality Assessment (3)
- 663 Assessment and Intervention with Infants (3)
- 671 Advanced Psychopathology (3)
- 672 Psychotherapy I Theories (3)
- 673 Professional Issues (3)
- 675 Behavioral Interventions (3)
- 676 Psychotherapy II Techniques (3)
- 677 Group Psychotherapy (3)
- 678 Family Systems (3)
- 679 Survey of Clinical Psychology (3)
- 680 Directed Study in Psychology (3, R6)
- 683 Internship in Psychology (6, 6)
- 684 Practicum in Psychology (4)
- 686 Topics in Psychology (3, R9)
- 697 Seminar: Behavioral/Emotional Evaluation of Children and Adolescents (3)
- 698 Rorschach Seminar (3)
- 699 Thesis (3, R6)
### Public Affairs (PA) Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>571</td>
<td>Government-Business Relations (3)</td>
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<tr>
<td>572</td>
<td>Public Policy Formulation (3)</td>
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<td>570</td>
<td>Public Affairs Administration (3)</td>
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<td>671</td>
<td>Budgetary Processes (3)</td>
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<td>672</td>
<td>Governmental Organizations (3)</td>
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<td>673</td>
<td>Public Policy Analysis (3)</td>
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<td>674</td>
<td>Statistics and Decision Making (3)</td>
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<tr>
<td>675</td>
<td>Government and Press Relations (3)</td>
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<td>685</td>
<td>Internship in Public Affairs (3)</td>
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### Reading (EDRD)

#### 150 Introduction to College Reading (3)
- Reading course to help freshmen become better prepared for reading college-level material
- Credit earned in this course will not count toward 128 hours required for graduation

#### 250 College Reading and Vocabulary (3)
- Extending skills for college and recreational reading
- Emphasis on vocabulary and comprehension

#### 280 Speed Reading (3)
- Techniques for improving reading speed, efficiency, vocabulary, and study habits
- Skimming, pacing, eye exercises, comprehension, and retention
- 2 Lecture, 2 Lab

#### 320 Phonics and Word Analysis (3)
- The basics of phonics and word analysis skills used to teach reading

#### 323 Reading and Communication Skills in Content Areas (2)
- Methods for teaching reading and other communication skills in content areas
- PREQ Admission to the professional-education sequence

#### 334 Reading Instruction in the Elementary School (3)
- Methods and materials for teaching reading in grades K-6
- Integration of communication skills in the total developmental reading program
- PREQ Admission to the professional sequence or permission of the instructor

#### 389 Cooperative Education in Reading (1 or 3, R15)
- See Cooperative Education Program

#### 443 Middle Grades Reading (3)
- Methods and materials for teaching reading and other communication skills in the middle grades
- Emphasis on organization for instruction, word identification, and comprehension skills, and reading in content materials

#### 453 High School and Adult Reading (4)
- Methods and materials for teaching reading in high school and adult education
- PREQ 333 or 443
- 3 Lecture, 2 Lab

#### 474 Diagnostic Teaching of Reading (3)
- Assessment and remediation of reading problems and strategies for teaching reading
- PREQ EDRD 334 or 443 or 453 or permission of the instructor
- 2 Lecture, 2 Lab

### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>503</td>
<td>Reading Conference I, II (2,2)</td>
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<tr>
<td>513</td>
<td>Phonics and Word Analysis (3)</td>
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<td>520</td>
<td>Reading and Communication Skills (3)</td>
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<td>543</td>
<td>Middle Grades Reading (3)</td>
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<td>553</td>
<td>High School and Adult Reading (4)</td>
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<td>573</td>
<td>Practicum in Teaching Reading (3)</td>
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<td>661</td>
<td>Developmental Reading (3)</td>
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<td>672</td>
<td>Organization and Supervision of Reading Programs (3)</td>
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<td>676</td>
<td>Reading Workshop (3)</td>
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<td>700</td>
<td>History and Psychology of Reading Instruction (3)</td>
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<tr>
<td>710</td>
<td>Field Experience in Reading (3)</td>
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<tr>
<td>720</td>
<td>Developing and Evaluating Reading Materials (3)</td>
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</tbody>
</table>
641 Investigations and Research in Teaching Reading (3)
651 Clinical Procedures in Remedial Reading (3)
660 Reading Programs in Two-Year Colleges (3)

740 Reading Research Projects (3)
750 Reading Communication and Language Structure (3)
780 Independent Study in Reading Education (3)
795 Advanced Seminar in Reading (3)

Religion (REL)

105 Eastern Religious Traditions (3)
A survey of the major Eastern religious traditions, such as Hinduism and Buddhism, and an attempt to answer the question What is religion?

106 Western Religious Traditions (3)
A historical study of Judaism, Christianity, and Islam, and their influences on Western civilization

380 Independent Study (1-3, R6)
493 Topics in Religion (3, R6)

Science Education (SCI)

293 Shop for Science Teachers (3)
Design, construction, and repair of simple laboratory apparatus and electronic equipment, basic work with wood, metal, glass, and soldering 6 Lab

331 Methods and Materials for Elementary Science (2)
Integrated lab experiences in micro-teaching, inquiry teaching skills using recent curricular materials PREQ Completion of general-education science requirements

341 Methods and Materials for Secondary School Science (2)
Integrated treatment of methods, materials, curriculum, and innovations in secondary science PREQ Completion of general education science requirements

451 Environmental Science for Teachers (3)
Materials and techniques for interdisciplinary projects

493 Topics in Science Education (1-3, 1-3)
494

Graduate Courses
551 Environmental Science for Teachers (3) 621 Biology and Environmental Science for Teachers (3)
593 Topics in Science Education (1-3, R6) 695 Seminar in Science Education (3, 3)
594 696
611 Physical and Earth Science for Teachers (3)

Secondary Education and Special Subject Teaching (EDSE)

Methods and Materials for Secondary Teaching
Methods, materials, curriculum, and trends in teaching in the secondary schools PREQ EDCI 231

322 Principles and Methods of Teaching (3)
Methods, strategies, materials, and techniques of clinical and classroom teaching PREQ Admission to the teacher-education program or permission of department head

486 Field Experience in Teaching (3, R6)
Supervised experience for a second teaching certification or for an initial certification for individuals who are employed as full-time teachers 9 hours per week
487 Teaching Practicum in Clinical Settings (1, R3)
Experience using teaching techniques, materials, and methods for individualized instruction in job-related settings. S/U grading. PREQ: Junior standing and permission of adviser and department head. 1 Lecture, 1 Lab

490 Supervised Student Teaching (9)
A full-time teaching experience. COREQ 495

492 Supervised Student Teaching in Health Education (6)
COREQ 495, HEAL 492

495 Student Teaching Seminar (3)
Theory related to practice during student teaching. COREQ 490

Graduate Courses
586 Internship in a Second Teaching Area (3) 680 Independent Study in the Secondary Curriculum (1, 1)
681

Social Sciences (SSC)
414 Cross-Cultural Communications (3)
Cultural differences affecting communications between Americans and others

Graduate Course
514 Cross-Cultural Communications (3)

Social Work (SOCW)
151 Introduction to Social Work (3)
Social work as a profession, history, current practice settings, professional values and requirements

231 Foundations of Family Service Skills (3)
Introduction to helping skills for practitioners working with children and their families

232 Performance Based Skills for Social Service Providers (3)
Integrates and further develops helping skills into performance standards for effective practice with children and families

233 Competency Based Practice Experience (3)
Practice experience in an agency related to skills learned in 231 and 232. S/U grading. PREQ 231 and 232. 10 hours per week

251 Social Welfare Policies, Programs, and Services (3)
Historical development of social welfare policies, policy development and change, understanding the political process, and the relationship to social work values

253 Foundations of Social Work Practice (4)
Basic knowledge, values, and skills of the profession, emphasis on use of self and the generalist approach with micro systems. PREQ 151 or permission of department head. 3 Lecture, 2 Lab

304 School Social Work (3)
Practice in the school system, its content, history, and legal framework. Special needs children, designs, delivery, and evaluation of services

326 Child Welfare (3)
Child welfare services, public and private programs, children's rights, and issues affecting services for children and families
327 Social Work with Families (3)
Concepts and skills for intervention with families, emphasis on use of family strengths and community resources in family problem solving. PREQ or COREQ CDFR 364, admission to major or permission of instructor

329 Social Work with Older Adults (3)
Concepts and skills for effective practice with the aging, needs and strengths of older people, community resources, professional approaches to intervention

330 Social Work in the Health Field (3)
Concepts and skills for social work practice in hospitals, out-patient clinics, and other health settings

362 Social Work Practice I, II (4, 4)
364 Application of knowledge and skill to social work practice, discussion and simulation of functions and task roles, expansion of professional use of self, emphasis on micro-systems in 362 and macro-systems in 364. PREQ 251, 253, PREQ or COREQ SOCW 327 and admission to the major for 362, 362 for 364. 3 Lecture, 2 Lab

373 Social Welfare Policy Issues and Analysis (3)
Current legal, political, economic, and social issues that influence the profession and practice of social work. PREQ 251, PSC 302, 303, or 304, or permission of instructor

389 Cooperative Education in Social Work (1 or 3, R15)
See Cooperative Education Program

393 Topics in Social Work (3, R9)

395 Seminar in Social Work (1-3, R9)
Current trends and issues for practice, studies of social work agencies and programs, examination of social welfare policies and concerns. PREQ Permission of instructor

402 Person, Environment, Culture (3)
Integration of human behavior and social environment, emphasis on selected subcultures and minority groups. PREQ SOC 314 or 414, SOCW 327, or permission of instructor

466 Social Work Research and Evaluation (4)
Scientific methods of research used in building practice knowledge and evaluating service delivery. PREQ 362 or permission of instructor. 3 Lecture, 2 Lab

480 Senior Seminar (2)
COREQ 496

481 Independent Study (1-3, R6)
PREQ 253 or permission of department head

483 Internship in Social Work (3, 3, 3)
484 Work experience in an agency related to the student's interest and career objectives
485 S/U grading. PREQ Permission of instructor. 10 hours per week per course

486 Field Experience (4, 4, 4)
Full-time supervised placement in selected human service agencies to integrate theory with practice and prepare for professional responsibility. Concurrent enrollment required. PREQ 364 COREQ 496

496 Field Seminar (3)
Integration of content with field practice. COREQ 486, 487, 488

Graduate Course
593 Topics in Social Work (1-3, R6)
Sociology (SOC)

103 (300) Human Society (3)
Analysis of human behavior in social and cultural contexts, emphasizing the sociological perspective (P1a)

105 (PSC/SOC 105/308) Current Political and Social Issues (3) (F3).

231 Principles of Sociology (3)
Analysis of human social behavior, basic concepts in current theory and research

304 Social Change (3)
Changes in human societies through cultural, economic, social, and political processes, introduction to development, social movements, and social conflict PREQ 231 or permission of instructor

314 Social Inequality (3)
Social inequalities in wealth, income, prestige, and power, inequalities based on sex, age, and race PREQ 231 or permission of instructor

326 Gender Roles and Society (3)
Gender roles examined in a sociological context emphasizing the relationship between these roles and the pre-existing sexual stratification system PREQ 231 or permission of instructor

330 Rural Society (3)
Application of sociological concepts to rural environments, characteristics of rural population, social structure, and social institutions, social change, structure of agriculture, and local government structure and processes PREQ 231 or permission of instructor

342 The Individual in Society (3)
Individual behavior in social context, social interaction PREQ 231 or permission of instructor

350 Deviant Social Behavior (3)
Causes and control of individual and group rebellion or retreat from prescribed social norms

354 Social Problems (3)
Problems of modern American society such as poverty, social conflict, corporate power and capitalism, alienation, and deviance

355 Criminology (3)
Nature, extent, and causes of criminal behavior, role of police, courts, and corrections, prevention and control programs

380 (ANTH 380) Ethnographic Research Methods (3)

385 Methods of Social Research (3)
The logic of scientific inquiry, techniques of research used in sociology, including sample surveys PREQ 231 or permission of instructor

386 Analysis of Social Data (3)
Methods for presentation and analysis of social scientific data, descriptive and inferential techniques, measures of association PREQ 385

389 Cooperative Education in Sociology (1 or 3, R15)
PREQ 231 or permission of instructor See Cooperative Education Program

391 Sociological Theory (3)
The development of sociological theory, issues in classical and contemporary social thought PREQ 231 or permission of instructor
414 (ANTH 414) Minority Groups (3)
Relations between dominant and subordinate races and ethnic groups, historical and comparative aspects, African-Americans, Chicanos, and Indians  PREQ 231 or permission of instructor

423 (SM 423) Sociology of Sport (3)
Social issues in sport examined from historical, cross-cultural, and sociological perspectives with attention to impact of race, gender, and social class on participation  PREQ 231 or permission of instructor

432 Community Organization and Development (3)
Community organization viewed as a process of bringing about desirable changes in community life Community structure, needs assessment, and planning for change  PREQ 231 or permission of instructor

434 Regional and Societal Development (3)
Social dimensions of economic growth and development with particular emphasis on Third-World countries, alternative definitions of development, problems related to the implementation of change in the context of national, regional, and institutional structures  PREQ 231 or permission of instructor

448 Social Movements (3)
Social movements and collective behavior, mass efforts to promote or resist social change, comparison of riots, reform movements, and revolutions  PREQ 231 or permission of instructor

454 Sociology of Conflict and Conflict Resolution (3)
Analysis of sociological theories of social conflict, including Marx, Weber, Simmel, Coser, Dahrendorf, and Collins, case studies of conflict and conflict resolution stressing the applications of theory and research  PREQ 231 or permission of instructor

480 Independent Study in Sociology (1-2, R6)
PREQ 231 or permission of instructor

483 Internship in Sociology (3, 3, 3)
484 Application of theory and knowledge to work experience in a cooperating agency
485 S/U grading Three hours credit applicable to sociology major or minor 9 hours per week per course  PREQ 231 or permission of instructor

494 Topics in Sociology (3, R6)
PREQ Permission of instructor

Graduate Courses
514 (ANTH 514) Minority Groups (3)
523 Sociology of Sport (3)
532 Community Organization and Development (3)
534 Regional and Societal Development (3)
554 Sociology of Conflict and Conflict Resolution (3)
580 Independent Study in Sociology (1-2, R6)
594 Topics in Sociology (3, R6)

Spanish (SPAN)

101 Spanish Language and Culture (3)
Elements of understanding, speaking, reading, and writing Spanish, basic grammatical concepts, lab practice required (P3a)

105 The Spanish-Speaking World (3)
Study of Spanish culture and its relationship to the cultures of countries and regions where Spanish is spoken (P4)

110 Intensive Spanish I (6)
Developing skills in understanding, speaking, reading, and writing, emphasis on oral aspects, the Rassias Method Three hours credit only applicable to general education  PREQ Permission of instructor 4 Lecture, 3 Lab, 5 Drill (P3a)
132 Elementary Spanish (3)  
PREQ Placement or permission of department head

231 Intermediate Spanish I, II (3, 3)  
Continuation of oral and written Spanish grammar, readings and discussion on Spanish culture and civilization, readings in more specialized areas, lab practice may be assigned  
PREQ 132 or equivalent or placement for 231, 231 or equivalent or placement for 232

240 Intensive Spanish II (6)  
Continuation of 110, increasing emphasis on reading and writing skills  
PREQ Permission of instructor 4 Lecture, 5 Lab, 5 Drill

301 Spanish Composition (3)  
PREQ 232 or equivalent or placement

302 Conversational Spanish (3)  
Advanced intermediate course emphasizing topical dialogue  
PREQ 232 or equivalent or placement

303 Applied Spanish Conversation (3, R6)  
Apprenticeship in the intensive language program  
PREQ 232 or 240, sophomore standing, selection by faculty 10 Lab

320 Methods of Teaching Foreign Language (3)  
Methods and materials for teaching second languages in grades K-12  
PREQ Admission to professional sequence or permission of instructor

321 Spanish Civilization (3)  
Geographical, political, cultural, and historical aspects of Spain  
PREQ 232 or 240  
PREQ or COREQ 301 or 302 or permission of department head

322 Latin American Civilization (3)  
Geographical, political, cultural, and historical aspects of Latin America  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

331 Survey of Spanish Literature I, II (3)  
The main literary movements, authors, and works in Spain since the 12th century, course division at 15th century  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

332 Survey of Latin American Literature (3)  
Literary movements, authors, and works of Latin America  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

333 Introduction to Spanish Prose and Poetry (3)  
Introduction to Spanish literary texts, reading and analysis of literary works  
PREQ 232 or 240

351 Spanish Phonetics and General Linguistics (3)  
Analysis of the Spanish sound system, intensive drill in pronunciation, articulation, intonation, and rhythm, introduction to linguistics  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

389 Cooperative Education in Spanish (1 or 3, R15)  
PREQ 301, 302  
See Cooperative Education Program

393 Special Topics in Spanish (1-3, R6)  
PREQ 232 or 240

431 Studies in Spanish Literature (3, R6)  
Study of an author or authors, a genre, literary movement, school, or literary period of Spain  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head
432 Studies in Latin American Literature (3, R6)
Study of an author or authors, a genre, literary movement, school, or literary period of Latin America. PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head.

451 Advanced Spanish Grammar (3)
Study of the more difficult grammatical forms and usages of the Spanish language. PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head.

452 Advanced Spanish Conversation (3)
Discussion of selected topics, reports on assigned readings, situational dialogues in practical, everyday Spanish. PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head.

481 Independent Studies in Spanish (1-3, R6)
PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head.

Special Education (SPED)

240 The Exceptional Child (3)
Areas and characteristics of exceptionalities, problems in learning and personal-social adjustment of exceptional children, educational alternatives.

310 Evaluation of the Exceptional Child (3)
Development of assessment programs and evaluation procedures, practice administering and interpreting tests.

312 Teaching Elementary Students with Learning Problems (K-6) (3)
Methods and materials for evaluating and instructing children with mild to moderate learning problems. PREQ 240, admission to the professional-education sequence.

323 Preprofessional Seminar in Mental Retardation (3)
Topics related to field experiences.

335 Teaching Exceptional Children (2)
Overview of exceptional children, emphasis on methods and materials for integrating students into regular classrooms. Not open to special-education majors. PREQ Admission to the teacher-education program or permission of department head.

389 Cooperative Education in Special Education (1 or 3, R15)
See Cooperative Education Program.

401 Introduction to Learning Disabilities (3)
Historical concepts and theories of learning disabilities, educational characteristics of learning-disabled children, overview of remedial programs. PREQ 240.

405 Introduction to Mental Retardation (3)
Multidisciplinary approach to mental retardation, mental performance and functioning related to human development. PREQ 240 or permission of department head.

413 Teaching Adolescents with Learning Problems (3)
Survey and evaluation of curricular models, diagnosis, developing instructional strategies, establishing goals and objectives. PREQ 312, admission to professional-education sequence, senior status.

417 Managing Classrooms for Exceptional Children (3)
Principles and techniques of classroom and behavior management. PREQ 240 and admission to the teacher-education program.
420 Reading for the Exceptional Child (3)
Instructional strategies suited to the needs of the exceptional child, assessment of weaknesses and strengths in reading PREQ 240, 310, 320

432 The Physically Handicapped Child (3)
Social, psychological, and medical problems of children with physical disabilities

450 Individual Educational Plans for Students with Disabilities (3)
Development of Individual Educational Plans (IEPs), formal and informal assessment and instructional planning, study of federal and state regulations PREQ 240 and admission to the professional-education sequence

460 The Gifted Child (3)
Characteristics, problems, and special needs of gifted and talented children and youth

461 Teaching the Gifted Student (3)
Approaches under common administrative structures and in ideal settings, applications of learning theories

462 The Bright Underachiever (3)
Problems involving bright-average and highly gifted children with a variety of educational limitations

485 Field Experience in Teaching (3, R6)
Supervised experience for a second teaching certificate or for an initial certification for individuals who are employed as full-time teachers 9 hours per week

486 Practicum in Mental Retardation (1-3)
3 hours per credit hour PREQ Written application, permission of instructor and adviser

487 Practicum in Learning Disabilities (1-3)
3 hours per credit hour PREQ Written application, permission of instructor and adviser

489 Practicum in the Gifted and Talented (1-3)
3 hours per credit hour

490 Supervised Student Teaching (9)
A full-time teaching experience COREQ 495

495 Special Education Seminar (3)
Working with parents, teachers, students, and others in a helping consultative relationship, skills for effective participation on interdisciplinary teams PREQ 240 and admission to the teacher-education program COREQ 490

Graduate Courses

501 Introduction to Learning Disabilities (3)
502 Current Issues in Special Education (3)
504 Educational Programs for Students with Behavioral Disorders (3)
513 Teaching Adolescents with Learning Problems (3)
529 Educational Programs for Students with Mental Retardation (3)
531 The Physically Handicapped Child (3)
550 The Gifted Child (3)
551 Teaching the Gifted Child (3)
552 Special Population in Gifted Education (3)
560 Structure and Function of the Eye (3)
561 Methods of Teaching the Visually Impaired (3)
562 Orientation and Mobility for the Visually Impaired (3)
593 Topics in Special Education (1-3, R6)
600 Creative Thinking and Problem Solving (3)
603 Administration of Special Education Programs (3)
630 Teaching Students with Mild to Moderate Mental Retardation (3)
631 Appraisal of Exceptional Children (3)
681 Seminar in Learning Disabilities (3)
682 Research in Special Education (3)
684 Teaching Students with Behavioral Disorders (3)
687 Practicum in Special Education (1-3, R3, 1-3, R3)
688
Sport Management (SM)

260 Introduction to Sport Management (2)
Survey of career opportunities and competencies

315 Introduction to Intramurals and Recreational Sport Management (3)
Organization, administration, history, and theoretical concepts of intramurals and recreational sport management in the public school, college, and military settings
PREQ Junior standing or permission of instructor

380 Independent Study (1-3, R3)
A topic in sport management agreed upon by student and instructor
PREQ ENGL 102, permission of department head

383 Apprenticeship (1, R3)
Apprenticeship to develop necessary skills before entering the required internship
PREQ Permission of department head 3 Lab

389 Cooperative Education in Sport Management (1 or 3, R15)
PREQ Permission of instructor See Cooperative Education Program

415 Legal Issues for the Sport Practitioner (2)
Study of legal issues as they pertain to sport delivery systems, physical education, and recreational activity settings
Basic legal terminology, risk management, litigation procedures, case law, and current issues are analyzed
PREQ Senior standing or permission of instructor

423 (SOC 423) Sociology of Sport (3)
Social issues in sport examined from historical, cross-cultural, and sociological perspectives with attention to impact of race, gender, and social class on participation

435 Event and Facility Management and Marketing (3)
Study of current trends and the management and marketing of sporting events and sport facilities
Basic terminology and building designs of sport facilities are also discussed
PREQ Senior standing or permission of instructor

484 Internship in Sport Management (6, 6)
Experiences relating theory to practice in a specific area of sport management
PREQ Permission of department head 12 weeks, 20 hours per week per course

495 Sport Management Seminar (1)
Analysis of management in a specific organization related to the student's internship
PREQ Permission of adviser and department head 2 Seminar

Therapeutic Recreation (TR)

240 Foundations of Therapeutic Recreation (3)
The provision of recreation services as a vehicle for human growth and development, emphasis on the needs of the ill, disabled, and disadvantaged

253 Activity Skills for Special Populations (2)
Active and passive games and other social events for improving the health and self-image of people with special needs
352 Therapeutic Recreation Processes and Techniques (3)
Leadership, programing, and client evaluation principles for various treatment settings
PREQ 240

360 Therapeutic Recreation Services for the Elderly (3)
An investigation of therapeutic recreation provision for the elderly through a service continuum model

385 Pre-Internship Seminar (1)
Overview of NCTRC standards for professional certification, personal communication skills, practicum documentation procedures, internship site selection
PREQ TR major, junior standing

389 Cooperative Education in Therapeutic Recreation (1 or 3, R15)
See Cooperative Education Program

396 Special Topics (1-3)

417 Administration of Therapeutic Recreation Services (3)
Organization, function, and management of agencies providing recreation services to special populations
PREQ 240

470 Personal Growth Through Outdoor Adventure (3)
Strategies and techniques for conducting individual and group initiatives, values clarification sessions, and environmental awareness exercises in an outdoor setting
Field trips required
PREQ Permission of instructor
2 Lecture, 2 Lab

481 Independent Study (1-3)

484 Field Experience in Therapeutic Recreation (6, 6)
Experience designed to integrate theory with practice, observation, field work, and planning in a setting related to student's area of interest
PREQ Permission of program coordinator, TR major
3 hours per credit hour

570 Personal Growth Through Outdoor Adventure (3)

University Studies-Interdisciplinary (USI)

101 Honors Forum (1)
Interdisciplinary introduction to the academic milieu—scholarly controversy, the ferment of ideas, study, and research

130 Academic and Career Planning (1) (formerly COUN 130)
Introduction to the university and to higher education Discussion of issues involved in the transition from highschool to college Emphasis on academic and career planning and personal development

393 Topics in International Studies I (3, R6)
Interdisciplinary introduction to the civilization and culture of a particular country or region and its relationship with the United States

394 Topics in Cherokee Studies (3, R9)
Selected individual or interdisciplinary aspects of Cherokee culture and society offered by various departments

395 Topics in International Studies II (1-3, R4)
Interdisciplinary study of the civilization, environment, and culture of a country or region and its relationships with the United States and the world community
396 **Honors Colloquium (3, R6)**  
Interdisciplinary discussion of a topic of special concern selected in consultation with honors students  
PREQ Junior standing, 3.0 GPA

497 **Honors Seminar (3, R6)**  
Interdisciplinary seminar featuring student research directed toward a topic selected in consultation with honors students  
PREQ Junior standing with 3.0 GPA
History of The University of North Carolina

In North Carolina, all the public educational institutions that grant baccalaureate degrees are part of the University of North Carolina. Western Carolina University is one of the 16 constituent institutions of the multi-campus state university.

The University of North Carolina, chartered by the NC General Assembly in 1789, was the first public university in the United States to open its doors and the only one to graduate students in the 18th century. The first class was admitted in Chapel Hill in 1795. For the next 136 years, the only campus of the University of North Carolina was at Chapel Hill.

In 1877, the NC General Assembly began sponsoring additional institutions of higher education, diverse in origin and purpose. Five were historically African-American institutions, and another was founded to educate American Indians. Several were created to prepare teachers for the public schools. Others had a technological emphasis. One is a training school for performing artists.

In 1931, the NC General Assembly redefined the University of North Carolina to include three state-supported institutions: the campus at Chapel Hill (now the University of North Carolina at Chapel Hill), North Carolina State College (now North Carolina State University at Raleigh), and Woman's College (now the University of North Carolina at Greensboro). The new multi-campus University operated with one board of trustees and one president. By 1969, three additional campuses had joined the University through legislative action: the University of North Carolina at Charlotte, the University of North Carolina at Asheville, and the University of North Carolina at Wilmington.

In 1971, the General Assembly passed legislation bringing into the University of North Carolina the state's ten remaining public senior institutions, each of which had until then been legally separate: Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, the North Carolina School of the Arts, Pembroke State University, Western Carolina University, and Winston-Salem State University. This action created the current 16-campus University. (In 1985, the North Carolina School of Science and Mathematics, a residential highschool for gifted students, was declared an affiliated school of the University.)

The UNC Board of Governors is the policy-making body legally charged with “the general determination, control, supervision, management, and governance of all affairs of the constituent institutions.” It elects the president, who administers the University. The 32 voting members of the Board of Governors are elected by the General Assembly for four-year terms. Former board chairmen and board members who are former governors of North Carolina may continue to serve for limited periods as non-voting members emeriti. The president of the UNC Association of Student Governments, or that student’s designee, is also a non-voting member.

Each of the 16 constituent institutions is headed by a chancellor, who is chosen by the Board of Governors on the president's nomination and is responsible to the president. Each institution has a board of trustees, consisting of eight members elected by the Board of Governors, four appointed by the governor, and the president of the student body, who serves ex officio. (The NC School of the Arts has two additional ex officio members.) Each board of trustees holds extensive powers over academic and other operations of its institution on delegation from the Board of Governors.

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*Emeriti

Ex Officio

Derrick E Griffith Charlotte

OFFICERS OF THE UNIVERSITY OF NORTH CAROLINA

C D Spangler Jr, BS, MBA, DHL, LLD President
William F Little, BS, MA, PhD Vice President, Academic Affairs
Roy Carroll, BA, MA, PhD Vice President, Planning
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Wyndham Robertson, AB Vice President, Communications
David G Martin, BA, LLB Vice President, Public Affairs
Rosalind R Fuse-Hall, BA, JD Secretary of the University
Richard H Robinson Jr, AB, LLB Assistant to the President
Western Carolina University was founded in August 1889 as a semipublic school. Chartered as Cullowhee High School in 1891, it served the Cullowhee community and boarding students from neighboring counties and other states.

For Professor Robert Lee Madison, the institution’s founder, the aim of the school was teacher training. In 1893, with the first state appropriation of $1,500, a normal department was established. In 1905, the institution became Cullowhee Normal and Industrial School, a title it held for twenty years.

Beginning about 1912, the status of the school was gradually raised to that of a two-year normal school or junior college. With state support increasing and work at the secondary level discontinued, the name of the school was changed in 1925 to Cullowhee State Normal School.

In 1929, under a new charter authorizing the school to extend its work to the four-year level, the name Western Carolina Teachers College was adopted. Modifications in function and rapid growth climaxed in 1951 with the addition of the postgraduate year to the curriculum, and the granting of the Master of Arts in Education degree was authorized. Demands in the liberal arts, and for programs in other areas of learning, led to an expansion of its offerings and to a further change, in 1953, to the name Western Carolina College.

In 1967 the institution was designated a regional university by the North Carolina General Assembly and the name of the institution was changed to Western Carolina University.

In 1971 the state legislature reorganized higher education in North Carolina, and on July 1, 1972, Western Carolina University became a constituent institution of the University of North Carolina.

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Charles Pine
Kenneth F Wilson

**Terms Expiring in 1995**
Silver Spring, MD
Penrose
Cherokee
Murphy
Sylva
Asheville

**Terms Expiring in 1997**
Robbinsville
Sylva
Asheville
Cashiers
Asheville
Waynesville

**Ex Officio**
William Scott
Atlantic Beach
ADMINISTRATIVE OFFICERS
1993-94

Office of the Chancellor
Myron L Coulter, EdD, DHL Chancellor
Judy H Dowell, Ph D Assistant to the Chancellor
Harry E Ramsey, M S W Assistant to the Chancellor, Western Carolina University Programs in Asheville
Richard L Kucharski, J D Legal Counsel

Office of Intercollegiate Athletics
Larry L Travis, M S Director of Athletics
Frederick Q Cantler, B S Assistant Athletic Director /Compliance/Head Trainer
Steven F Hodgins, M Ed Football Coach
Betty Jean Peele, M A Ed Associate Athletics Director/ Senior Women's Administrator
Keith Aaron LeClair, B S Ed Baseball Coach
William F Jarman III, M Ed Assistant Baseball Coach
Gary D Peters Women's Basketball Coach
Shellie A Greenman Assistant Women's Basketball Coach
Jana Kay Ochoa, B S Ed Assistant Women's Basketball Coach
Patricia Ann Howell, M A Ed Volleyball Coach, Assistant Sports Information Director
Jeffrey Fela, B S Assistant Football Coach
Alfonso DeGraffenreid, M Ed Assistant Football Coach
William Holtzower, B S Head Basketball Coach
Benjamin F Dees Assistant Basketball Coach
Timothy Peter Strayhorn, B S B A Assistant Basketball Coach
Willie C Richardson Assistant Basketball Coach
Phillip D Hopkins Assistant Basketball Coach
Timothy Beckman, B S Assistant Football Coach
Johnny D Wike, M A Ed Assistant Football Coach
Danny Williamson, M A Ed Men's and Women's Track and Cross Country Coach
Greg Duff, M A Business and Ticket Manager
Stephen M White, B A Associate Director of Athletics, Sports Information Director
Fred J Wrennan, III, B A Men's and Women's Tennis Coach
Mary T Ochoa, M Ed Assistant Athletic Trainer
Doyle Craig Wells, B S Information and Communications Specialist I
Cheryl Plemmons, B S B A Administrative Assistant/Eligibility Coordinator
Gary Woolum, M A Ed Assistant Football Coach

Office of Public Information
A Douglas Reed, A B Director
James W Rowell, B A Associate Director
Susan Calhoun Nicholl, B A Assistant Director of Public Information

Office for University Advancement
Thomas Bommer, B S Director of Publications
A James Manning, M B A Assistant Director, University Development
Thomas Connelly, Jr, Ed D Director, Annual Fund
Director, Major Gifts
Office for Academic Affairs
John H Wakeley, Ph D
Judith M Stillion, Ph D
Michael E Malone, Ph D
Ann H Deupree, M S

Academic Officers
Gurney E Chambers, Ph D
Anthony A Hickey, Ph D
Rosemary DePaolo, Ph D
John F McCready, Ed D
J Dale Pounds, M S C E
Marilyn E Feldmann, Ph D
J C Alexander, Jr, Ph D
Noelle Kehrberg, Ph D

Steven P Yurkovich, Ph D

Academic Development
Fred Donald Hinson, Ph D
William Christian Martin III, M A Ed
Anne Frazer Rogers, Ph D
James Karl Nicholas, Ph D
Benjamin Franklin Ward, A M
Renee' Corbin, M A

Director, General Education Program
Director, Media Center
Interim Director, Honors Program
Interim Director, Honors Program
Director, Faculty Center for Teaching Excellence
Coordinator, Undergraduate Assessment Program

Office of Academic Services
Drumont I Bowman, M A
Susan Clark Smith, A B
John C Deupree, M Ed
Philip M Cauley, M A
W Sam Black, M A Ed
J Gregory Johnson, B A
Angela Reeves, B A
Anita Howell Lytle, B S

Director of Admissions
Director of Retention Services
Registrar
Associate Director, Admissions
Assistant Director, Admissions
Assistant Director, Admissions
Assistant Director, Admissions

Office of Institutional Studies and Planning
Kenneth L Wood, M Ed
Cecil C Brooks, M S
Robert W Anders, M A

Director
Associate Director, University Reports
Director, Computer Center

Career and Academic Planning Center
Raymond S Ledford, M S W
Lawrence Bixby, M Ed
Susie Ray, M A

Director
Assistant Director
Director of Cooperative Education and Placement

Program Administration
Barbara H Bell, E D S P
Linda S Bowers, M S

Director, Reading Center
Director, Speech and Hearing Center
William A Clauss, Ph D
J Ralph Devane, Ed D
Burton B Fox, Ed D
Katherine M Hill, M Ed
William J Kirwan, M S L S
Pauline Christensen, Ph D
Malcolm Loughlin, M A Ed
Patricia L Miller, M A Ed
Hoyt Ponder, Ph D
G Ian Pritchard, Ph D
Richard L Thompson, Ed D

Office for Business Affairs
C Joseph Carter, Ph D
George W Wooten, M A
Alan D Johns, M PA

Andrew B Comne, M S
Raymond R Nicholson, B A
James R Holland, A B
Arthur Stephens, B S
Robert T Edwards, B S B A
Margaret Raper
Fred Wencel, B S B A (Marriot employee)
Arthur E McAbee
Walter R Wilcox, M A Ed
John O Thompson, B S Ed

Office for University Services
James E Dooley, Ph D
Lawrence H Arney, Ed D
Ellerd M Hulbert, Ph D

Center for Improving Mountain Living
Robert Gurevich, Ph D
Thomas E McClure, J D
Ralph Montee, M A
James E Dooley, Ph D
Violet S Vassian

Mountain Heritage Center
H Tyler Blethen, Ph D
Suzanne Hill McDowell, M A
David W Brewin, M A Ed

Director, Office for Rural Education
Director, Center for Mathematics and Science Education
Director, Caribbean and Latin American Programs
Director, Vocational/Technical Instructor Project
University Librarian
Dean, Continuing Education and Summer School
Associate Dean, Continuing Education and Summer School
Coordinator, Evening Programs in Asheville
Director, Developmental Evaluation Center
Director, Mountain Aquaculture Research Center
Director, Center for the Advancement of Teaching

Vice Chancellor
Assistant Vice Chancellor, Controller
University Budget Officer,
Assistant to the Vice Chancellor
Director, Physical Plant
Manager, Book and Supply Store
Personnel Officer
Director, Purchasing
Internal Auditor
Manager, Auxiliary Food Services
Manager, Cafeteria Services
Director, Office of Public Safety
Director, Ramsey Regional Activity Center
Director, Auxiliary Services

Vice Chancellor
Director, Western Carolina University Center in Cherokee
Director, International Development

Director
Associate Director
Associate Director, International Programs
Acting Director, Western North Carolina Tomorrow
Special Assistant to Director

Director
Curator
Museum Specialist
Office for Student Development
Glenn W Stillion, Ph D
Bonita Jacobs, Ph D
William K Haggard, Ed D
Richard Cameron, M Ed
Ernest Jeffries, M Ed
R Randy Rice, M S
Thomas W Grant, M S
Timothy C Jacobs, M Ed
Donald O’Neal, M D
John R Ritchie, Ph D

Vice Chancellor
Assistant Vice Chancellor
Dean, Student Development
Director, Student Services
Assistant to the Vice Chancellor
Assistant Vice Chancellor and Director of Housing
Director, Financial Aid
Director, University Center
Director, University Health Services
Director, Counseling Center

Institute for College and University Teaching
Judith M Stillion, Ph D
Benjamin Franklin Ward, A M
Katherine M Hill, M Ed

Director
Associate Director
Assistant Director

North Carolina Center for the Advancement of Teaching
Richard L Thompson, Ed D
Kay Shapiro, Ed S
Judith E Clauss, Ph D
Jerome Franson, Ph D
Anthony G Rud, Jr, Ph D
Christine M Shea, Ph D
Ada E Setzer, Ed D
Daniel D Fredricks, Ph D
Neill Clark III, Ph D

Director
Assistant Director
Fellow
Senior Fellow
Senior Fellow
Senior Fellow
Fellow
Fellow
Fellow
FACULTY
1993-94

*Myron L Coulter, Ed D
Chancellor, Professor of Education BS, Indiana State Teachers College, 1951, MS, Ed D, Indiana University, 1956, 1959, D H L, College of Idaho, 1982 Date of appointment, 1984

*John H Wakeley, Ph D
Vice- Chancellor for Academic Affairs, Professor of Psychology AB, College of Wooster, 1954, MS, North Carolina State University at Raleigh, 1958, Ph D, Michigan State University, 1961 Date of appointment, 1987

Millicent H Abel, Ph D
Assistant Professor of Psychology BA, Indiana University Southeast, 1979, MA, Ph D, University of Louisville, 1982, 1988 Date of appointment, 1992

*John Russell Adams, Ph D
Professor of Management BS, University of New Hampshire, 1959, MS, Florida State University, 1969, Ph D, Syracuse University, 1974 Date of appointment, 1980

Maynard Francis Adams, Ed D
Professor of Industrial and Engineering Technology BS, MA, Ed D, North Carolina State University at Raleigh, 1961, 1962, 1971 Date of appointment, 1965

Elizabeth H Addison, Ph D
Assistant Professor and Director of Freshman English BA, Transylvania College, 1968, MA, University of Tennessee, 1975, Ph D, Duke University, 1985 Date of appointment, 1990

*James Clyde Addison, Ph D
Associate Professor of English BA, MA, Clemson University, 1969, 1975, Ph D, University of Tennessee, 1980 Date of appointment, 1979

Joseph Culbreth Alexander, Jr, Ph D
Associate Dean, College of Arts and Sciences, Professor of Communication AB, B D, Duke University, 1956, 1959, MA, Ph D, Ohio University, 1970, 1973 Date of appointment, 1972

**Louis R Alexander, Ph D
Instructor of Chemistry & Physics BS, Georgia State University, 1971, Ph D, Emory University, 1984 Date of appointment, 1993

*Davia Massey Allen, Ph D
Associate Professor and Head, Department of Human Environmental Sciences BS Ed, Western Carolina University, 1966, MSH E, University of North Carolina at Greensboro, 1969, Ph D, University of South Carolina, 1973 Date of appointment, 1979

Grace C Allen, Ph D
Assistant Professor of Finance BS, Agnes Scott College, 1978, MBA, Appalachian State University, 1985, Ph D, University of South Carolina, 1991 Date of appointment, 1991

Charles M. Ambrose, Ed D.
Assistant to the Chancellor for University Advancement, Assistant Professor of Administration, Curriculum, and Instruction B A, Furman University, 1983, MA, University of Louisville, 1986, Ed D, University of Georgia, 1989 Date of appointment, 1990

Benjamin J Anderson, Jr, M.A.

*William Louis Anderson, Ph D
Professor of History BA, MA, Ph D, University of Alabama, 1963, 1966, 1974 Date of appointment, 1969

*Lawrence Hinkle Arney, Ed D.
Director, Western Carolina University Center in Cherokee, Associate Professor of Higher Education BS, Western Carolina University, 1951, Ed D, University of North Carolina at Chapel Hull, 1953, Ed D, University of Florida, 1969 Date of appointment, 1970

Amy E Arnold, M L S
Assistant Professor, Hunter Library, B S, Huntingdon College, 1982, M SM, Wittenberg University, 1984, M L S, University of Alabama, 1988 Date of appointment, 1992

Kenneth J Ayala, M S E E
Associate Professor of Industrial and Engineering Technology BS, Virginia Military Institute, 1961, M S E E, Georgia Institute of Technology, 1967 Date of appointment, 1990

Stephen Michael Ayers, Ph D
Assistant Professor of Theatre Arts BA, Maryville College, 1975, MA, University of Houston at Clear Lake, 1981, Ph D, University of Colorado, 1988 Date of appointment, 1985

* Member of the Graduate Faculty
** On leave
*** Part-time appointment
Ellen Hedrick Bacon, Ph D
Associate Professor of Special Education

John Roger Bacon, Ph D
Professor of Chemistry
B.S., Kansas State University, 1964, M.S., Ph.D., University of Iowa, 1967, 1968 Date of appointment, 1972

John Martin Baker, Ph D
Associate Professor of Mathematics
B.S., Mississippi State University, 1964, M.A., University of Kansas, 1966, Ph.D., Florida State University, 1969 Date of appointment, 1971

Sherry Baldwin, Ph D
Assistant Professor of Human Services
B.S.Ed., Western Carolina University, 1971, M.Ed., University of South Carolina, 1975, Ph.D., University of South Carolina, 1981 Date of appointment, 1992

Joyce Anne Baldwin, M.S.H.E.
Assistant Professor of Human Environmental Sciences

Aaron Kermit Ball, Ed D
Associate Professor of Industrial and Engineering Technology
B.S., M.A., Appalachian State University, 1975, 1977, Ed.D., Virginia Polytechnic Institute and State University, 1984 Date of appointment, 1977

Deborah K Barker, M Ed
Instructor of Human Services

Tamera P Barringer, M.S.N
Assistant Professor of Nursing

Joseph Yarnell Bassett, Jr., Ph D
Professor of Chemistry
B.S., Ph.D., University of North Carolina at Chapel Hill, 1951, 1958 Date of appointment, 1964

Peter C Bates, Ph D
Assistant Professor of Natural Resources Management
B.S., University of Montana, 1977, M.S., Montana State University, 1981, Ph.D., University of Minnesota, 1990 Date of appointment, 1993

Mary Kay Bauer, D.M.A.
Assistant Professor of Music

Richard Squires Beam, Ph D.
Associate Professor of Theatre Arts
B.A., Indiana University, 1966, 1969, Ph.D., University of Georgia, 1984 Date of appointment, 1971

Maxie Eugene Beaver, Ed D
Associate Professor of Music

John Alan Beegle, Ph D
Professor of Accounting
B.B.A., M.B.A., University of Miami, 1959, 1960, Ph.D., St Louis University, 1967 Date of appointment, 1972

John Luther Bell, Jr., Ph D
Creighton Sossomon Professor of History
B.A., Wake Forest University, 1959, M.A., Ph.D., University of North Carolina at Chapel Hill, 1961, 1970 Date of appointment, 1963

June Peterson Benson, M.A.Ed
Associate Professor of Health, Physical Education, and Recreation
B.S., University of North Carolina at Greensboro, 1959, M.A.Ed., Western Carolina University, 1963 Date of appointment, 1960

Richard Conor Berne, Ed D
Professor of Science Education and Head, Department of Chemistry and Physics

Margaret H Blatt, MBA
Instructor of Health, PE, and Recreation
B.S., College of Charleston, 1982, M.B.A., Jacksonville University, 1984 Date of appointment, 1983

Harold Tyler Blethen III, Ph D
Director, Mountain Heritage Center, Professor of History

Lisa A Bloom, Ed D
Assistant Professor of Human Services

Richard A Borge, M.F.A
Assistant Professor of Art
Jennifer J Bowers, B.S
Instructor of Health, PE, and Recreation
B.S., Appalachian State University, 1991
Date of appointment, 1993

Drumont Irvin Bowman, M.A
Director of Admissions, Instructor of Education
B.S., M.A., Virginia Polytechnic
Institute and State University, 1969, 1973
Date of appointment, 1982

*William L. Boyd, Ph.D
Professor of Accounting and Head, Department
of Economics and Finance
B.A., University of South Florida, 1968, M.B.A., Texas
Christian University, 1969, Ph.D., Texas
A&M University, 1978
Date of appointment, 1990

*Richard Lewis Boyer, M.F.A
Assistant Professor of English
B.A., Denison University, 1965, M.F.A., University of
Iowa, 1968
Date of appointment, 1988

Paul F. Brandt, Ph.D
Assistant Professor of Chemistry and Physics
B.S., Southwest State University, 1984,
Ph.D., University of Colorado, 1990
Date of appointment, 1992

**Douglas Bridges, M.A
Lecturer of English
B.A., M.A., Western
Carolina University, 1974, 1975
Date of appointment, 1991

**Roger Lee Bright, M.F.A
Instructor, Communication and Theatre Arts
B.F.A., Western Carolina University, 1986,
M.F.A., Pennsylvania State University, 1988
Date of appointment, 1992

William D. Brotherton, Ph.D
Assistant Professor of Human Services
B.S., Missouri Southern State College, 1977,
M. Ed., C.A.S., Western Carolina University,
1984, 1985, Ph.D., Florida State University,
1989
Date of appointment, 1992

Susan Brown-Strauss, M.F.A
Assistant Professor of Communication and Theatre Arts
B.S., Mansfield State College, 1973, M.F.A., University of Nebraska-Lincoln,
1978, M.F.A., University of Southern Mississippi,
1989
Date of appointment, 1993

*Susan Clare Brown, Ph.D
Assistant Professor of Sport Management
B.S., Florida State University, 1976, M.S.,
Eastern Illinois University, 1983, Ph.D., Ohio
State University, 1988
Date of appointment, 1988

*Richard Conrad Bruce, Ph.D
Director, Highlands Biological Station, Professor of Biology
B.S., Tufts University, 1958, M.A., Ph.D., Duke University, 1961, 1968
Date of appointment, 1963

*James Garlin Bryant, Jr., Ed.D.
Associate Professor of Health, Physical Education,
and Recreation
Ed.D., George Peabody College for Teachers,
1976
Date of appointment, 1969

*Bill Buchanan, M.F.A
Assistant Professor of Art
B.A., Eastern Kentucky University, 1962, M.A., Ball State University, 1969, M.F.A., University of Alabama,
1976
Date of appointment, 1970

**Robert E. Buckner, B.S.Ed
Lecturer of Music
B.S.Ed., Western Carolina University, 1967
Date of appointment, 1991

Lee Palmer Budahl, Ph.D
Associate Professor of Art
B.S., M.A., University of Wisconsin, 1955, 1967, M.A.,
San Francisco State College, 1959, Ph.D.,
University of Maryland, 1972
Date of appointment, 1972

Debra Burke, J.D
Associate Professor of Business Administration, Law,
and Marketing
Date of appointment, 1992

Charles Candler Burrell, M.S.
Associate Professor of Mathematics
B.S., Western Carolina University, 1962, M.S.,
Auburn University, 1964
Date of appointment, 1966

*James W. Busbin, Ph.D
Associate Professor of Marketing
B.S.B.A., M.S., University of Alabama, 1972, 1975,
Ph.D., University of Tennessee, 1981
Date of appointment, 1991

*David J. Butcher, Ph.D
Assistant Professor of Chemistry
B.S., University of Vermont, 1982, Ph.D., University of Connecticut, 1990
Date of appointment, 1990

Karen L. Butcher, Ph.D
Assistant Professor of Chemistry and Physics
B.S., University of Vermont, 1982, Ph.D., University of Connecticut, 1990
Date of appointment, 1993
*James Edwin Byer, Ph D
Associate Professor of English

**Kathryn Stripling Byer, M F.A
Instructor of English

*Joan Falconer Byrd, M F.A
Associate Professor of Art

Richard Raymond Cameron, M Ed
Associate Dean for Student Activities, Instructor

*Barbara Hortense Capps, Ed D
Associate Professor of Elementary Education
B S Ed, Florida State University, 1954, M A Ed, Western Carolina University, 1961, Ed D, Indiana University, 1973

*James Wesley Carland, Jr, Ph D
Associate Professor of Accounting
B A, University of North Carolina at Asheville, 1968, M B A, Western Carolina University, 1977, Ph D, University of Georgia, 1982

*JoAnn Crook Carland, Ph D
Associate Professor of Computer Information Systems
A B, Meredith College, 1969, M A Ed, Western Carolina University, 1978, Ph D, University of Georgia, 1981

Mable Searcy Carlyle, M N
Associate Professor of Nursing
B S N, Western Carolina University, 1973, M N, Emory University, 1976

*Calvin Dale Carpenter, Ed D
Professor of Special Education

Timothy V. Carstens, M L.S
Assistant Professor, Hunter Library
A B, Colby College, 1982, M L S, Rutgers University, 1984

Charles Joseph Carter, Ph D
Vice Chancellor for Business Affairs, Instructor of Education
A B, Wofford College, 1960, M A, Ph D, Florida State University, 1967, 1971

*Donald M. Chalker, Ed.D.
Associate Professor and Head, Department of Administration, Curriculum, and Instruction

Ann Alsop Chambers, Ed.S
Instructor of English

*Gurney Ernest Chambers, Ph D
Dean, College of Education and Psychology, Professor of Education
B S, Western Carolina University, 1961, M A, Ph D, George Peabody College for Teachers, 1963, 1967

*William Lee Chovan, Ph D
Professor of Psychology
B S, Ohio University, 1956, M S, Akron University, 1957, Ph D, Case Western Reserve University, 1969

Pauline M Christensen, Ph D
Dean of Continuing Education and Summer School, and Professor of Administration, Curriculum, and Instruction
B S, Iowa State University, 1960, M S, Winona State University, 1970, Ph D, University of Minnesota, 1990

**Katherine A Cipriano, M A
Lecturer of English

**William August Clauss, Ph D
Director, Office for Rural Education, Associate Professor of Education
B S E, Ohio University, 1962, M Ed, Miami University, 1967, Ph D, University of Miami, 1970

David B Claxton, Ed D
Associate Professor and Head, Health, PE, and Recreation
B S Ed, M S Ed, Baylor University, 1974, 1975, Ed D, Arizona State University, 1985

**Phyllis D Claxton, M A
Instructor of Health, PE, and Recreation
B S, Western Carolina University, 1946, M A, George Peabody, 1949

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Carl David Coffee, D B A
Associate Professor of Accounting and Information Systems B B A, Eastern Kentucky University, 1969, M S, D B A, University of Kentucky, 1971, 1983 Date of appointment, 1988

Edward Stanton Cohen, M Ln
Head Reference Librarian, Associate Professor B S, University of Pennsylvania, 1952, M Ln, Emory University, 1967 Date of appointment, 1971

Billy R. Colgan
Master Sergeant, U S Army, Senior Instructor of Military Science Date of appointment, 1991

*Thomas Francis Connelly, Jr, Ed D
Director of Major Gifts and Associate Professor of Health Sciences B A, Hampden-Sydney College, 1965, M H A, Duke University, 1967, Ed D, University of Kentucky, 1977 Date of appointment, 1979

*Jerry Lee Cook, Ed D
Professor of Industrial and Engineering Technology B S, Western Carolina University, 1969, M S, Ed D, University of Tennessee, 1971, 1978 Date of appointment, 1975

Norma Brake Cook, M T
Associate Professor of Health Sciences B S, Marshall University, 1947, M T, Medical College of Virginia, 1949, M A, Presbyterian School of Christian Education, 1954 Date of appointment, 1976

*Barbara Anne Cosper, Ph D
Associate Professor of Health Sciences B S, M S, University of Alabama, 1967, 1969, Ph D, Kansas State University, 1972 Date of appointment, 1977

Loa C Cowan, M S
Assistant Professor of Human Environmental Sciences B F A, Memphis College of Art, 1977, M S, University of Tennessee, 1984 Date of appointment, 1992

*Frederick Alexander Coyle, Ph D

Michael David Creason, M A Ed
Intramurals Director, Assistant Professor of Physical Education B S Ed, M A Ed, Western Carolina University, 1972, 1974 Date of appointment, 1974

Raymond G Crepeau, M B A
Assistant Professor of Computer Information Systems B A, Providence College, 1963, M B A, Auburn University at Montgomery, 1977 Date of appointment, 1986

Robert Lewis Dalley, M S.
Associate Professor of Industrial and Engineering Technology B S, M S, Bemidji State University, 1969, 1975 Date of appointment, 1977

*Ellis Duane Davis, Ph D
Professor of Criminal Justice B A, West Georgia College, 1969, M Ed, University of Georgia, 1973, Ph D, University of Southern Mississippi, 1980 Date of appointment, 1984

Gail K Debnam, B A
Instructor of Education B A, Meredith College, 1975 Date of appointment, 1989

*Mary Diane Deck, Ph D
Assistant Professor of Human Services B A, Appalachian State University, 1971, M Ed, University of North Carolina at Chapel Hill, 1974, M A Ed, Western Carolina University, 1982, Ph D, University of Virginia, 1986 Date of appointment, 1990

John A DeFede, M S
Major, U S Army, Professor of Military Science and Head B S, Fordham University, 1975, M S, University of Southern California, 1984 Date of appointment, 1992

*Vivian Lundy Delitz, Ph D
Associate Professor and Head, Department of Nursing B S N, M N, University of Florida, 1964, 1972, Ph D, University of Tennessee, 1991 Date of appointment, 1974

Linda J DelForge, M A T
Associate Professor of Biology B S Ed, Western Carolina University, 1965, M A T, Harvard University, 1966 Date of appointment, 1966

**Lidia Del Piccolo-Morris, M A.

Rosemary DePaolo, Ph D
Dean, College of Arts and Sciences, and Professor of English B A, Queens College-New York, 1970, M A, Ph D, Rutgers University, 1974, 1979 Date of appointment, 1993
George W DeSain, Ed D

*James Ralph DeVane, Ed D.
Director, Center for Mathematics and Science Education, Associate Professor of Mathematics B S, Troy State University, 1960, M A, University of Mississippi, 1965, Ed D, University of Georgia, 1971 Date of appointment, 1971

*James Michael Dolan, Ph D
Associate Professor of Mathematics B A, Christian Brothers College, 1959, M A, Ph D, University of Tennessee, 1962, 1967 Date of appointment, 1973

James Edward Dooley, Ph D
Vice Chancellor for University Services, Professor of Music B M, University of Chattanooga, 1952, M M E, North Texas State University, 1955, Ph D, Florida State University, 1963 Date of appointment, 1969

*Davido Dorondo, D Phil
Assistant Professor of History B A, Armstrong State College, 1980, M A, University of South Carolina, 1984, D Phil, University of Oxford, 1988 Date of appointment, 1987

Lorna Bitgood Dorr, M L S
Assistant Professor, Hunter Library B A, Alfred University, 1963, M L S, University of South Carolina, 1985 Date of appointment, 1986

*Arthur Michael Dougherty, Ph D.
Professor of Education and Head, Department of Human Services B A, M A, University of Notre Dame, 1968, 1971, M A T, Oakland University, 1970, Ph D, Indiana State University, 1974 Date of appointment, 1976

*Judy Holcombe Dowell, Ph D
Assistant to the Chancellor, Professor of Human Environmental Sciences B S, M S, Ph D, Florida State University, 1966, 1967, 1970 Date of appointment, 1975

Barbara R Duncan, Ph D.
Assistant Professor of Rural Education B A, M A, Bucknell University, 1973, 1975, Ph D, University of Pennsylvania, 1982 Date of appointment, 1992

Bobbye J. Dunlap, D B A

*Ralph Stephens Eberly, Ph D
Associate Professor of English B A, University of Texas, 1966, M A, Ph D, University of Michigan, 1967, 1970 Date of appointment, 1970

Gilllan D. Ellern, M L I S.
Assistant Professor, Hunter Library B S, Wesleyan College, 1985, M L I S, Louisiana State University, 1986 Date of appointment, 1990

*Betsy Clifford Farlow, Ph D
Associate Professor of Music B A, Guilford College, 1953, S M M, Union Theological Seminary, 1956, Ph D, University of North Carolina at Chapel Hill, 1969 Date of appointment, 1968

Betty A Farmer, Ph D
Instructor of Communication and Theatre Arts B A, Clinch Valley College, 1986, M S, Ph D, University of Tennessee, 1988, 1993 Date of appointment, 1993

*Harold Frederick Farwell, Jr , Ph D
Professor of English B A, M A, University of Chicago, 1960, 1961, Ph D, University of Wisconsin, 1970 Date of appointment, 1970

Marilyn E Feldmann, Ph D
Associate Dean, College of Education and Psychology, Assistant Professor of Administration, Curriculum, and Instruction B S Ed, Illinois State University, 1971, M S Ed, Northern Illinois University, 1975, Ph D, Illinois State University, 1980 Date of appointment, 1987

Roy J Ferguson, B S
Captain, US Army, Assistant Professor of Military Science B S, Flagler College, 1982 Date of appointment, 1993

Martin A Fischer, Ph D.
Associate Professor of Human Services B A, University of California, 1974, M S, Central Washington University, 1979, Ph D, University of Oregon, 1983 Date of appointment, 1992

James Paul Fletcher, B S
Captain of Cavalry, US Army, Assistant Professor of Military Science B S, University of Tennessee, 1982 Date of appointment, 1991
Walter Edward Foegelle, Ed D
Associate Professor of Health Sciences B S; Texas Wesleyan College, 1970, M S, Southwest Texas State University, 1977, Ed D, Indiana University, 1984 Date of appointment, 1986

Burton B Fox, Ed D

Judith A Franson, Ph D
Assistant Professor of Elementary Education and Reading B A, George Peabody, 1966, M Ed, Georgia College, 1974, Ph D, University of Georgia, 1985 Date of appointment, 1991

Daniel L Frederick, M S
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