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, or handicap. 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 black 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 to all public and private high schools and institutions of higher learning in North Carolina. Additional copies are available for $2.00 each from the Office of Admissions, Western Carolina University, Cullowhee, North Carolina 28723, telephone (704) 227-7317. Twelve thousand copies of this public document were printed at a cost of $13,051.00 or $1.09 per copy.

The Western Carolina University Record
Vol. LXVIII April 1992 No. 1
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ACADEMIC CALENDAR

Fall Semester 1992
August 20, Thursday, 3:00-6:00 p.m.
August 23, Sunday, 8:00 a.m.
August 23, Sunday, 12:00 noon
August 24, Monday, 9:00 a.m.-4:00 p.m.
August 24, Monday, 4:30-6:30 p.m.
August 24, Monday, 4:30 p.m.
August 24, Monday, 6:00 p.m.
August 25, Tuesday
August 25-28, Tuesday-Friday
September 4-7, Friday 5:00 p.m.-Monday
September 8, Tuesday, 8:00 a.m.
October 14, Wednesday
October 17-20, Saturday 5:00 p.m.-Tuesday
October 21, Wednesday, 8:00 a.m.
October 26, Monday
October 26- November 13, Monday-Friday
November 25-29, Wednesday, 2:00 p.m.-Sunday
November 30, Monday, 8:00 a.m.
December 8, Tuesday
December 9, Wednesday
December 10-16, Thursday-Wednesday
December 17, Thursday

Spring Semester 1993 (Subject to Change)
January 7, Thursday, 3:00-6:00 p.m.
January 10, Sunday
January 11, Monday, 4:30-6:30 p.m.
January 11, Monday, 9:00 a.m.-4:00 p.m.
January 11, Monday, 6:00 p.m.
January 12, Tuesday
January 12-15, Tuesday-Friday
January 18, Monday
February 27-March 7, Saturday, 5:00 p.m.-Sunday
March 8, Monday, 8:00 a.m.
March 10, Wednesday

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

A late registration fee of $10.00 will be charged for all classes in Cullowhee.
<table>
<thead>
<tr>
<th>Date Range</th>
<th>Event Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 22, Monday</td>
<td>Deadline for students completing programs in summer or fall to file degree applications in deans’ offices</td>
</tr>
<tr>
<td>March 22-April 8, Monday-Thursday</td>
<td>Academic advising for summer and fall semester and early registration in Cullowhee</td>
</tr>
<tr>
<td>April 9-11, Friday, 8:00 a.m.-Sunday</td>
<td>Easter holiday</td>
</tr>
<tr>
<td>April 12, Monday, 8:00 a.m.</td>
<td>Classes resume</td>
</tr>
<tr>
<td>April 30, Friday</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>May 1-7, Saturday-Friday</td>
<td>Final examinations</td>
</tr>
<tr>
<td>May 8, Saturday</td>
<td>Commencement</td>
</tr>
<tr>
<td><strong>Summer Term 1993 (Subject to Change)</strong></td>
<td></td>
</tr>
<tr>
<td>May 31, Monday-August 6, Friday</td>
<td>Summer session (ten-week session)</td>
</tr>
<tr>
<td>May 31, Monday-July 2, Friday</td>
<td>First summer session</td>
</tr>
<tr>
<td>July 5, Monday-August 6, Friday</td>
<td>Second summer session</td>
</tr>
<tr>
<td>August 6, Friday</td>
<td>Commencement</td>
</tr>
<tr>
<td><strong>Fall Semester 1993 (Subject to Change)</strong></td>
<td></td>
</tr>
<tr>
<td>August 19, Thursday, 3:00-6:00 p.m.</td>
<td>Registration in Asheville</td>
</tr>
<tr>
<td>August 22, Sunday, 8:00 a.m.</td>
<td>Residence halls open for students attending orientation</td>
</tr>
<tr>
<td>August 22, Sunday, 12:00 noon</td>
<td>Residence halls open for all students</td>
</tr>
<tr>
<td>August 23, Monday, 9:00 a.m.-4:00 p.m.</td>
<td>Orientation for new freshmen and new transfer students in Cullowhee</td>
</tr>
<tr>
<td>August 23, Monday, 4:30-6:30 p.m.</td>
<td>Registration in Cullowhee for students attending orientation</td>
</tr>
<tr>
<td>August 23, Monday, 6:00 p.m.</td>
<td>Registration in Asheville continues</td>
</tr>
<tr>
<td>August 24, Tuesday</td>
<td>Evening classes in Cullowhee and Asheville begin</td>
</tr>
<tr>
<td>August 24-27, Tuesday-Friday</td>
<td>Day classes in Cullowhee begin</td>
</tr>
<tr>
<td>September 3-6, Friday 5:00 p.m.-Monday</td>
<td>Late registration and schedule changes in Cullowhee †</td>
</tr>
<tr>
<td>September 7, Tuesday, 8:00 a.m.</td>
<td>Labor Day holiday</td>
</tr>
<tr>
<td>October 13, Wednesday</td>
<td>Classes resume</td>
</tr>
<tr>
<td>October 16-19, Saturday 5:00 p.m.-Tuesday</td>
<td>Last day to drop a course with a W</td>
</tr>
<tr>
<td>October 20, Wednesday, 8:00 a.m.</td>
<td>Fall holiday</td>
</tr>
<tr>
<td>October 25, Monday</td>
<td>Classes resume</td>
</tr>
<tr>
<td>November 1-12, Monday-Friday</td>
<td>Last day for students completing programs in May to file degree application in the deans’ offices</td>
</tr>
<tr>
<td>November 24-28, Wednesday, 2:00 p.m.-Sunday</td>
<td>Academic advising for spring semester and early registration in Cullowhee</td>
</tr>
<tr>
<td>November 29, Monday, 8:00 a.m.</td>
<td>Thanksgiving holiday</td>
</tr>
<tr>
<td>December 7, Tuesday</td>
<td>Classes resume</td>
</tr>
<tr>
<td>December 8, Wednesday</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>December 9-15, Thursday-Wednesday</td>
<td>Reading day</td>
</tr>
<tr>
<td>December 16, Thursday</td>
<td>Final examinations</td>
</tr>
<tr>
<td></td>
<td>Christmas holiday begins</td>
</tr>
</tbody>
</table>
Spring Semester 1994 (Subject to Change)

January 6, Thursday, 3:00-6:00 p.m. Registration in Asheville
January 9, Sunday Residence halls open. Orientation for new students
January 10, Monday, 4:30-6:30 p.m. Registration in Asheville continues
January 10, Monday, 9:00 a.m.-4:00 p.m. Registration in Cullowhee for new, continuing and readmitted students
January 10, Monday, 6:00 p.m. Evening classes in Cullowhee and Asheville begin
January 11, Tuesday Day classes in Cullowhee begin
January 11-14, Tuesday - Friday Late registration and schedule changes in Cullowhee
January 17, Monday Martin Luther King’s Birthday holiday
February 26-March 6, Spring holiday
March 7, Monday, 8:00 a.m. Classes resume
March 9, Wednesday Last day to drop a course with a W
March 21, Monday Deadline for students completing programs in summer or fall to file degree applications in deans’ offices
March 28-April 7, Monday-Thursday Academic advising for summer and fall semester and early registration in Cullowhee
April 1-3, Friday, 8:00 a.m.-Sunday Easter holiday
April 4, Monday, 8:00 a.m. Classes resume
April 29, Friday Last day of classes
April 30-May 6, Saturday-Friday Final examinations
May 7, Saturday Commencement

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
School of Applied Sciences .............................................. 227-7272
School of Arts and Sciences .............................................. 227-7646
School of Business ........................................................ 227-7401
School 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 schools—Applied Sciences, Arts and Sciences, Business, and Education and Psychology—and a Graduate School. Statewide 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 6,500 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 Tuckaseigee 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 offering golf, skiing, fishing, hunting, hiking, water sports, and other recreational opportunities are located 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:

- Accreditation Board for Engineering and Technology, Inc.
- American Assembly of Collegiate Schools of Business
- American Dietetic Association (Approved Plan V Program)
- 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 Professional Development of the American Home Economics Association
- Council on Social Work Education
- National Accreditation Council for Environmental Health Curricula
- 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

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
- American Council on Education
- American Society of Allied Health Professions
- Association for Theatre in Higher Education
- Association for Continuing Higher Education
- Association of Governing Boards of Universities and Colleges
- College Entrance Examination Board
- Conference of Southern Graduate Schools
A varied academic program is offered by the university's five schools. Through the Graduate School, the university offers graduate degree programs in numerous major areas leading to the Master of Arts, Master of Science, Master of Business Administration, Master of Health Sciences, Master of Music Education, Master of Industrial Education, Master of Project Management, Master of Public Affairs, Master of Arts in Education, the Education Specialist, and the Certificate of Advanced Study in Counseling. 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 schools 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 School 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; Nutrition and Dietetics; and Nursing.

The School 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, and Speech and Theatre Arts. The Bachelor of Arts with a major in Economics, offered in collaboration with the School of Business, is on inactive status.

Bachelor of Fine Arts with majors in Art and in 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, and Sociology.

The School of Business. Bachelor of Science in Business Administration with majors in Accounting, Business Administration and Law, Computer Information Systems, Economics, Finance, Management, Marketing, and Office Administration.

The School of Education and Psychology. Bachelor of Science in Education with majors in Communication Disorders, Elementary Education, General Special Education, Health Education, Learning Disabilities, Mental Retardation, Middle Grades Education, and Physical Education.

In collaboration with the School of Arts and Sciences: Bachelor of Science in Education with majors in Art, Biology, English, French, German, Mathematics, Music, Science Education,
Social Sciences, Spanish, and Speech and Theatre Arts.

In collaboration with the School of Business: Bachelor of Science in Education with a major in Business.

In collaboration with the School 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, in 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. This program of instruction utilizes the educational facilities and resources of the University of North Carolina at Asheville. In so doing, the two universities, working cooperatively with programs of instruction in the evening as well as on Saturday, make maximum use of these facilities while assisting people who are fully employed to secure further academic work. 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, mental retardation, general special education (with concentrations in behavioral disorders, learning disabilities, and mental retardation) public affairs, social science, 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, communication disorders, curriculum and instruction, English, history, home economics with an option for preprofessional practice in dietetics, industrial 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. Also, through an interinstitutional partnership with Asheville- Buncombe Technical Community College, most of the course requirements for a Bachelor of Science degree in Electronic Engineering Technology, Industrial Technology, and Manufacturing Engineering Technology are offered.
In addition to the courses offered by Western Carolina University, the University of North Carolina at Asheville offers supporting general education courses which carry applicable credit for those students pursuing degrees from Western Carolina University.

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 399,000 books and bound periodical volumes, and one million units of microform. Approximately 2,500 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 75,000 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 101,000 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 and 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 72 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 seeks to foster 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.

Writing Center. A staff of faculty, graduate assistants, and peer tutors is available to assist students in developing skills for preparing 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 periodically offers mini-courses or workshops tailored to specific problems exhibited by student writers.

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. An extensive library of supplementary materials includes textbooks, audio-visual and computer-assisted instruction materials, and a limited library of 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 schools 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 to the region it serves. 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 and civic clubs, and 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.

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 provides diagnostic and remedial services and reading improvement courses for children, college students, and other adults. Reading materials, programs, and equipment are displayed, demonstrated, and evaluated. The staff provides consulting services, conducts workshops and conferences, and provides a variety of reading services for public schools in the area. The center, which is located in Killian Building on the campus in Cullowhee, also provides extension services through offices at Oteen in Asheville.
Developmental Evaluation Center. The Developmental Evaluation Center 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 North Carolina Council on Developmental Disabilities, the Smoky Mountain Center for Mental Health, Developmental Disability and Substance Services, local school systems, 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, counseling, early childhood education, medical record administration, nursing, psychology, social work, special education, and communication disorders.

Speech and Hearing Center. The Speech and Hearing Center 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.

Child Development Center. The Department of Human Environmental Sciences cooperates with the Southwestern Child Development Commission in administering the Child Development Center which is located in Belk Building. It provides day care for children age two through five and serves as a demonstration center for students majoring in child development and related disciplines.

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, its programs are partially supported by twenty-three southeastern universities. The station also administers the Appalachian Environmental Arts Center, a facility which integrates the arts and environmental concerns.

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 Services. 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 November 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 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 will also play 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 School 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 School 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 8530. 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 1381 megabytes of disk storage and one 4 mm DAT tape drive. The VAX 8530 system has 5472 megabytes of disk storage and one tape drive. Five printers can be switched between the systems. Software programming language 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 (UNCECS). These services, as well as others (TELENET, TYMENET, 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.

**Bureau of Educational Research and Development.** The Bureau of Educational Research and Development in the School of Education and Psychology coordinates the professional services of the school to the educational community and responds to requests from the area for professional services in education. When appropriate, the bureau joins with other university agencies in the sponsorship of educational programs and activities.

**University Media Center.** The University Media Center, located in the Hunter Library building, provides instructional media resource services to the university. The services of the center include circulation of audiovisual materials and equipment, instructional media development and production, and maintenance and consultations for microcomputer, television, and other equipment used in instruction. The facilities of the center also include a mediated study area equipped with video playback and audiovisual equipment. The center is open from 8:00 a.m. to 5:00 p.m., Monday through Thursday and from 8:00 a.m. to 7:00 p.m. on Friday when classes are in session and until 5:00 p.m. on weekdays at other times of the year.

**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 work-study and regular student employment; special academic and personal support services, including services to handicapped students; 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.
Trio Programs. Through federal funding, the university operates Upward Bound, Student Support Services, and Talent Search programs to assist eligible students in western North Carolina. Upward Bound provides tutoring and counseling to economically deprived students in seven high schools and includes a six-week residential program at the university during the summer. Student Support Services provides 225 freshmen and sophomores with tutoring, special academic classes and laboratories, and counseling and advisement that supplement the services of the CAP Center, the departments, and other campus units. Talent Search assists approximately 900 young people in seven western counties to enter or re-enter secondary or post-secondary institutions through career counseling, financial aid information, and general support services.

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, 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 service; 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, tuition, and extracurricular activities. A limited number of local commuter spaces are available in each session.

Speakers Bureau. The Speakers 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 in-house.

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 stipends 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. The Legislator's 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. The Summer Theatre Program features productions through June and July. 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 located adjacent to E.J. Whitmire Stadium, is the largest, most versatile facility of its kind in western North Carolina. It has a total seating capacity of almost 8,000 people. Through a versatile network of movable curtains, it may be used as a large auditorium, or small areas with a more intimate atmosphere may be created. Its multipurpose design provides excellent facilities for a wide variety of activities, ranging from basketball and other sports to concerts, dramatic and television productions, workshops, conferences, and conventions. An ice skating rink, racquetball courts, and auxiliary gym also are available.

**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 Administration. 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 and to the General Administration of The University of North Carolina and 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 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, foundations and corporations. University Advancement includes administrative responsibilities for the Development Foundation; all operations of the Development Office, including the Catamount Club; Office of Alumni Affairs; 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 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 at Western Carolina University in 1985 as a statewide center to recognize and support outstanding North Carolina public school (K-12) teachers, and to enhance teaching as an art and profession. The center is located in a new $7 million facility on N.C. 107, 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 administrators and faculty.
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 nine 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 housing director.

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, record players, and television sets as long as outside antennas are not required. At least one television set connected to a central antenna is available in each hall. Cable television is available in public areas. Cable television service is also available in each room as an option to the student contracted individually with a commercial cable company serving the campus. Other facilities include vending machines, post office boxes, and coin-operated washers and dryers.

Students may decorate their rooms according to their own tastes but should see the rooms before deciding on colors and furnishings. Decorating guidelines are established by the housing office. Prospective students may see the rooms by contacting the housing office.

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 in residence, less an administrative fee and damage charges, if there are any. 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 $10.00 reservation fee for each session they plan to attend. The fee is deducted from total expenses at the time of registration. It is refundable if the student makes a request or 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 5 one-bedroom apartments. A limited number of other apartments ordinarily reserved for faculty and staff also may be available.

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 body-building 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, 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 Mountain 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 and individual sports.

**Athletics.** The university provides a full program of intercollegiate sports. Athletic teams play a full schedule in football, baseball, 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) 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 Admission 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.

Teacher Placement Service. Placement services are available to all teacher education graduates and alumni who seek employment in the field of education through the Teacher Placement Office, Killian 228.

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 four campus locations: Dodson Cafeteria on the lower campus and Brown cafeteria on the upper campus and the Top of the Stairs Restaurant and P.G. KATZ' Snack Bar located 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 3:00 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.

Handicapped Student Services. Assistance for handicapped students is available through the Office for Student Development, 460 Robinson Administration Building, Dr. Bonita 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.

3. Enforcement and Penalties

a. 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.

b. 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 expulsions 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, methaqualine), 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; 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* 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.
presence, 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 thirty 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.
FEES AND FINANCIAL AID

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 1992-93 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; it 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

I. Full-time Student

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina student</td>
<td>$ 338.00</td>
<td>$ 338.00</td>
</tr>
<tr>
<td>Out-of-state student</td>
<td>2,865.00</td>
<td>2,865.0</td>
</tr>
<tr>
<td>Required fees*</td>
<td>325.50</td>
<td>334.5</td>
</tr>
<tr>
<td>Book Rental Fee</td>
<td>50.00</td>
<td></td>
</tr>
<tr>
<td>Room</td>
<td>615.00</td>
<td>615.0</td>
</tr>
<tr>
<td>Board (required of residence hall students)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Declining Balance-Standard Option</td>
<td>567.00</td>
<td>567.0</td>
</tr>
<tr>
<td>Declining Balance-Low Option</td>
<td>513.00</td>
<td>513.0</td>
</tr>
<tr>
<td>15-meal plan</td>
<td>502.00</td>
<td>502.0</td>
</tr>
<tr>
<td>21-meal plan</td>
<td>540.00</td>
<td>540.0</td>
</tr>
</tbody>
</table>

Totals:

Day Student

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Carolina rate</td>
<td>$ 713.50</td>
<td>$ 672.5</td>
</tr>
<tr>
<td>Out-of-state rate</td>
<td>3,240.50</td>
<td>3,199.5</td>
</tr>
</tbody>
</table>

Residence Hall Boarding Student:

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>North Carolina rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with Declining Balance-Standard Option</td>
<td>1,895.50</td>
<td>1,854.5</td>
</tr>
<tr>
<td>with Declining Balance-Low Option</td>
<td>1,841.50</td>
<td>1,800.5</td>
</tr>
<tr>
<td>with 15-meal plan</td>
<td>1,830.50</td>
<td>1,789.5</td>
</tr>
<tr>
<td>with 21-meal plan</td>
<td>1,868.50</td>
<td>1,827.5</td>
</tr>
<tr>
<td>Out-of-state rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with Declining Balance-Standard Option</td>
<td>4,422.50</td>
<td>4,381.5</td>
</tr>
<tr>
<td>with Declining Balance-Low Option</td>
<td>4,368.50</td>
<td>4,327.5</td>
</tr>
<tr>
<td>with 15-meal plan</td>
<td>4,357.50</td>
<td>4,316.5</td>
</tr>
<tr>
<td>with 21-meal plan</td>
<td>4,395.50</td>
<td>4,354.5</td>
</tr>
</tbody>
</table>

* Required fees include: Health Services, $77.00; Recreational and Cultural, $62.00; Athletics, $94.00; Athletic Facilities, $16.00; University Center, $63.50; Documents Fee, $2.00; Academic Computing Fee, $11.00.

** 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>$114.30</td>
<td>$745.30</td>
<td>$106.60</td>
<td>$737.60</td>
</tr>
<tr>
<td>2</td>
<td>143.60</td>
<td>774.60</td>
<td>128.20</td>
<td>759.20</td>
</tr>
<tr>
<td>3</td>
<td>172.90</td>
<td>803.90</td>
<td>233.80</td>
<td>1,497.80</td>
</tr>
<tr>
<td>4</td>
<td>202.20</td>
<td>833.20</td>
<td>255.40</td>
<td>1,519.40</td>
</tr>
<tr>
<td>5</td>
<td>231.50</td>
<td>862.50</td>
<td>277.00</td>
<td>1,541.00</td>
</tr>
<tr>
<td>6</td>
<td>344.80</td>
<td>1,608.80</td>
<td>383.60</td>
<td>2,278.60</td>
</tr>
<tr>
<td>7</td>
<td>374.10</td>
<td>1,638.10</td>
<td>405.20</td>
<td>2,300.20</td>
</tr>
<tr>
<td>8</td>
<td>403.40</td>
<td>1,667.40</td>
<td>426.80</td>
<td>2,321.80</td>
</tr>
<tr>
<td>9</td>
<td>517.70</td>
<td>2,412.70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>547.00</td>
<td>2,442.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>576.30</td>
<td>2,471.30</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 University Supply Store
- 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 $567.00
- Declining Balance- Low Option $513.00

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, P.G. KATZ' 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.

- 21-Meal Standard Plan (3 meals/day, 7 days/week) $540.00
- 15-Meal Standard Plan (any 15 meals, Sun.-Sat.) $502.00
Commuting students have two additional options: a declining balance minimum prepayment of $50.00 or a 10-meal standard plan ($395) 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 $50.00 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, 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 residiencyary information.

**Initiative.** Being classified a student 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 ensure 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 a 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 next 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 involuntary 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 to reflect 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.

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 program is designed to meet the needs of students who otherwise would be unable to attend Western Carolina University. Awards are made on the basis of need and academic promise. Most awards are renewable, provided that financial need continues and satisfactory academic progress is maintained. Applications must be filed annually.

Application Procedure. Awards are made only after all entrance requirements are met. An application for admission should be completed and filed with the admissions office. High school students should plan to take the Scholastic Aptitude Test not later than December of the senior year.

Applicants must submit a Financial Aid Form to the College Scholarship Service as soon as possible after January 1 of their senior year and request that a copy be sent to the director of financial aid, Western Carolina University, College Code 5897. The form may be obtained
from the Student Financial Aid Office or from a high school guidance counselor. It should be completed as accurately as possible and should conform with income tax returns to avoid its return for further information and consequent delay.

All undergraduate applicants must apply for the Pell Grant Program. Application is made by completion of the Financial Aid Form.

A Personal Data Application form for financial assistance will be mailed to the applicant upon receipt of the processed Financial Aid Form from the College Scholarship Service. The application process is complete when the Personal Data Application, the Financial Aid Form, IRS 1040, and the Student Aid Report (SAR) from the Pell Grant Program, when applicable, have been received in the financial aid office. All forms should be received by March 31.

Notification of Awards. Notification of awards, beginning with completed applications for aid received prior to March 31, will be made by May 1 and will continue thereafter. The processing time for applications is about eight 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. (3) Employment, often in 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

Perkins Loans (NDSL). 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 $4,500 for the completion of the first two years of study toward a baccalaureate degree or a total of $9,000 for an undergraduate student who has already completed two years of undergraduate study (minus amounts borrowed during the first two years.) A graduate student may borrow a maximum of $18,000, 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.

Stafford Loans (Insured or Guaranteed Student Loans - College Foundation, Inc.) These government-subsidized loans are available to students through financial institutions. They are insured by a state or private guarantee agency. Stafford Loans 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 a year during the freshman or sophomore years, $4,000 a year for the junior or senior years and $7,500 a year if a graduate student. Two fees are normally charged to the borrower and are deducted from the loan before the student receives it. A five percent origination fee and a guarantee fee of approximately one percent are deducted at the time the loan is made. The interest is paid by the federal government to the lender until the borrower enters repayment. The current interest rate is eight percent. The interest rate for first-time borrowers during the first four years of repayment is eight percent and ten percent thereafter. Repayment begins six months after the student leaves school or drops below half-time status. The minimum annual repayment is $600, and the borrower has up to ten years to repay, depending upon the size of the loan.

In North Carolina, College Foundation, Inc., Post Office Box 12100, Raleigh, N.C. 27605-2100 acts as a central lender for participating financial institutions. Applications may be obtained by contacting College Foundation or the Financial Aid Office.

Parent Loans for Undergraduate Students (PLUS). These loans provide funds to parents to help meet the cost of education. They may borrow up to $4,000 per year for a combined total of $20,000 for each dependent student. However, they cannot borrow any amount that would make the total financial assistance greater than the cost of attendance. Interest rates are variable and are calculated annually, based on a federal formula that cannot exceed twelve percent. Repayment begins immediately, with the first installment due within sixty days of receipt of the loan.
Supplemental Loans for Students (SLS). These loans provide funds for students to cover their college expenses in addition to those borrowed under the guaranteed student loan program. They are available to undergraduate and graduate students who meet the federal eligibility requirements and are enrolled at least half time. Eligible students may borrow up to $4,000 per year for a cumulative total of $20,000. Interest rates are variable and are calculated annually, based on a federal formula that cannot exceed twelve percent. There is no federal interest subsidy on SLS or PLUS loans. Repayment begins immediately, with the first installment due within sixty days after receipt of the loan; however, payment of principal and interest may be deferred during in-school status. Deferred interest will be capitalized to be repaid after graduation.

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, N.C. 27619-0549, telephone (919) 881-0850.

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 high school 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 high school guidance offices, high school teacher recruiters, and the North Carolina Teaching Fellows Commission, 400 Oberlin Rd., Suite 220, Raleigh, N.C. 27605, telephone (919) 832-1584.

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 Financial Aid Form 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.

Grants and Scholarships

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 $250 to $2,400 per academic year depending upon the cost of attendance. All undergraduates enrolled for six hours or more are eligible to apply.

Minority Presence Grant Program. Under the Board of Governors' General Minority Grant Program, black 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.

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.

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.

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. Application may be made by paying for a copy of the Financial Aid Form to be submitted by March 1 to the NCSIG Program, code number 0742, Raleigh, N.C. 27605-2100.

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 upon 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 is 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 fulltime. 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 which are 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.

**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.

**The Paul Cabe Delta Sigma Phi Scholarship Fund.** The purpose of this fund is to provide financial award 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.

**Canton Mill United States Plywood-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, 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.

**DeSoto Family Scholarship.** The purpose of this scholarship program is to support deserving students in the School of Business who are recognized by the faculty as self-starters with high motivation. Recipients must demonstrate leadership characteristics and diligent work habits.

**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.

**Clint Dodson Biology Scholarship Fund.** This scholarship is available to students majoring in biology and is awarded on the basis of academic achievement and potential for a career in the sciences. Contact the Department of Biology.

**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 Flintom 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 School 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.

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.

Haywood County Western Alumni Scholarships. These endowed scholarships are awarded to Pisgah and Tuscola high school 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 high schools in Haywood County who have financial need may receive scholarships to attend Western Carolina University. Each scholarship is renewable for four years. Contact a high school 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.

Vera Turner and Pauline Hoffman Scholarships. Students who intend to prepare for work as counselors or psychologists in the Christian ministry may qualify for these scholarships. Selection is based on achievement and general activities in previous schooling and overall social, civic, and academic achievement and potential.

Homolka Scholarships. These scholarships provide support for students planning for careers in veterinary medicine. Preference is given to international students and renewal depends on satisfactory academic progress.

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 at Western. Scholarship recipients are selected from Blue Ridge and Smoky Mountain high schools.

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 School 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 high school guidance counselors.

Alex Lesueur Flute Award. This endowed fund supports awards for outstanding flute students actively involved in the instrumental music program of WCU. Contact the Department of Music.

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, N.C., art students are encouraged to apply.

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 School of Arts and Sciences.

Theodore Patrick Matus Scholarship Fund. This scholarship fund provides financial support for talented art students. Renewals depend upon continued satisfactory academic progress of the recipient.

The Raymond Edward Nelson Lambda Chi Alpha Scholarship Fund. This fund provides scholarship support for deserving young brothers of the Lambda Chi Alpha, Beta Zeta Chapter of Western Carolina University. Brothers are selected for high academic achievement, participation in various school activities, and overall social and civic contribution.

Josefina Niggli Scholarships. These endowed scholarships honoring Josefina Niggli, distinguished playwright and teacher, are made to students with established records of achievement in the WCU theatre.

North Carolina Association of Educational Office Personnel Scholarships. The Western Carolina University unit of the association awards scholarships to students enrolled in degree programs in the School 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.

Aston Park Scholarship Fund. This scholarship program is established for the purpose of providing financial support to deserving students from western North Carolina who desire to obtain a baccalaureate degree in the School of Applied Sciences.
Performing and Fine Arts Scholarships. These awards are made by the music, art, and communication and theatre arts departments based solely on audition/performance.

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.

Bronce and Betty Ray Scholarships. These $1,000 renewable scholarships for students who live in the 17-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 who are 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 adviser for biological study.

James A. Rigdon Scholarships. This endowment, which honors the W.D. Wike family, provides awards to students from western North Carolina, with preference given to residents of Jackson County. Selection is based on scholastic attainments and capabilities, character, and qualities of leadership.

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 School 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.

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.

State Employees' Association of North Carolina Scholarships. State employees, their spouses, and 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.

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 is 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

College 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.

Cooperative Education. This program provides placements in cooperating organizations which permit students to finance their education through a combination of work and study. Contact the Cooperative Education Office in the CAP Center.

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 thirty 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 black 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 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 Tests).

Entrance Examinations. Freshman applicants must take the Scholastic Aptitude Test (SAT). 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, and from high school guidance counselors. Applicants must request that their scores be sent to the Office of Admissions, Western Carolina University, Cullowhee, N.C. 28723 (College Code 5897).

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 and
  - 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 three categories of freshman admission to Western: honors admission, regular admission, and provisional 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 and 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.

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 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 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.

Minimum Admissions Requirement at the 16 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 at least one unit in a life or biological science (for example, biology); at least one unit in a physical science (for example, physical science, chemistry, physics); and at least 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 high school level courses taken and passed by an applicant after graduating from high school, as well as those taken while enrolled as a high school student.

Pre-University Honors Program. This program enables high school 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 high school transcript with SAT test results. 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 an overall grade point average (GPA) of 2.00 (C average) on all work attempted. A student on probation at another institution, or one whose grade 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 2.00 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 should be submitted at least one month before 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 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 in one of the categories listed 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 be enrolled 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 high school 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 being 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 semester hours. A normal load is defined as 16 hours. The maximum load is 19 hours, provided that no I or F grades were made the previous term. With a 3.0 GPA status the previous term, the maximum load is 21 hours. Any overload 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 Catalog/Schedule.

Classification. Regular degree-seeking undergraduates are classified based upon cumulative hours earned:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Freshman</th>
<th>0-29 hours</th>
<th>Junior</th>
<th>60-89 hours</th>
<th>Sophomore</th>
<th>30-59 hours</th>
<th>Senior</th>
<th>90 or more hours</th>
</tr>
</thead>
</table>

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 grading system.

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

Incomplete. At the instructor's discretion, but only when there is a reasonable prospect that the student can pass the course by making up the work missed, a student may be given an I grade for work not completed, if the incompletion is unavoidable and not caused by the student's negligence. The work must be made up and a grade submitted to 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 the case of I grades assigned in general education courses before Fall 1983 and not changed by Fall 1983, the policies stated in the General Education Manual shall be applied.

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 adviser, 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 taken. Only the instructor can change the grade in a course except as provided in the Incomplete grade policy. Any request by a student for a change in a final grade must be submitted to the instructor within thirty days after the mailing of the final grade report.

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. If a student withdraws from a course prior to the expiration of one-half of the term and wishes to receive a W grade, he/she must complete a withdrawal form, obtain the signatures of the course instructor and his/her academic adviser. The completed 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, a counseling center counselor, or an official of a court of law. If withdrawal from a course is approved by the course instructor, his/her department head and the student’s adviser, the withdrawal form will be submitted to the registrar by the department for posting.

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.

If, after appealing to the instructor, department head, and dean, the student is still dissatisfied or suitable action has not been taken, 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 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 3.9. 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 they are pursuing during each regular term in which they are enrolled in addition to meeting 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 majors 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>Hours Attempted and Hours of Advanced Standing:</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>
A student will be on academic probation if he/she has been on academic warning for two consecutive regular terms. A student will be on academic suspension if he/she has 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 may result in academic suspension.

**Academic Suspension.** Students on suspension are no longer enrolled in the university. Upon being suspended the first time, students cannot be readmitted before one regular semester has elapsed. Upon being suspended the second time, students cannot be readmitted before two regular semesters have elapsed.

Students suspended for the third time cannot petition for readmission until two calendar years have elapsed, at which time the students may ask that the two-year rule be applied.

The decision to waive a suspension is made by the Admissions, Readmissions and Retention Committee based on the student's previous academic record, summer school record and the student's request for readmission. Students desiring a waiver of suspension should submit a written request to Academic Services at least 10 days prior to registration.

Decisions of the Admissions, Readmissions and Retention Committee are usually final. Further appeal should be made through the Office of Academic Affairs.

**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 school 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 requirement. 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. Currently enrolled 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 transferability 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 should take the English Proficiency Examination in their first subsequent semester at the university. The examination is also required of students who completed ENGL 102 prior to September 1975.
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. Any undergraduate who has attempted more than 12 hours at the university and who receives CC marks in two courses during any 12-month period will be required to enroll in ENGL 300 in the first term following notification of receipt of two CC marks and will be assigned an appropriate corrective experience.

Placement in Freshman English

Based on their SAT verbal scores, the students will be placed in ENGL 100, 101, or 102. Students with SAT verbal scores of 580 or above will be placed automatically in ENGL 102 and, upon successful completion of the course, will be granted 3 hours of credit in ENGL 101 in addition to the credit earned in ENGL 102. With SAT verbal scores of 700 or above students will be exempted from both ENGL 101 and 102 and granted 6 hours of credit. Students with SAT verbal scores below 350 will be placed in ENGL 100. Students will write a diagnostic composition during the first week of classes to determine that their English placement is appropriate.

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.

Placement in Freshman Orientation Courses

The orientation courses are available as electives to all students. However, the Admission, Readmission, and Retention Committee may require a student to take one or more of the courses. COUN 140 (Study Techniques for College) is a condition of acceptance into the provisional admissions program. CAP Center advisers strongly recommend COUN 140 to individual students with academic problems. Students who are undecided about a major after the freshman year are advised to take COUN 130 (Career Opportunities and Decisions). COUN 150 (Understanding Self and Interpersonal Relationships) is recommended to students as a means of gaining greater social and personal insight.

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.

Modern Foreign Languages. Placement examinations are administered during the summer orientation sessions and at the beginning of each semester, and must be taken by any student desiring to be placed in the second or higher course of a foreign language. 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 up to 6 credits for the courses bypassed. This may include the general education course, 101. Additional information can be obtained from the department or from the 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.

Algebra. An introductory analysis test is administered during the summer orientation sessions and at the beginning of each semester for freshmen with two or more years of high school algebra. For satisfactory performance, a student receives credit for MATH 146.

Trigonometry. Every student who has had high school trigonometry and plans to take calculus is expected to take the trigonometry examination, administered at the beginning of each semester. MATH 145 will be waived as a requirement for students whose performance is satisfactory.

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 $15.00. 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 credit is 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 Academic Affairs Committee. 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 twelve 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 ten 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 in charge 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.

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 97.

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 128 semester hours, including (1) a general education component, (2) a major as prescribed by one of the departments, (3) a minor, second major, concentration, or other approved program as specified by the appropriate school and department, and (4) elective courses. 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. 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 requirements, 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 undecided 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 institutions 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. Students who hold the Bachelor's of Arts degree may not receive a second Bachelor's of Arts degree. The same restriction applies to a Bachelor's of Science degree holder who wishes to earn a second Bachelor's of Science 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:

*See Graduate Catalog Issue for graduate degree requirements.
1. Completion of a minimum 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, but that it serves 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.)
3. **Thinking, Reasoning, and Expressing, 3 hours**
   - AST 201 (302) Cosmos, 3 hours
   - BIOL 107 (307) Classical Experiments in Biology, 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
STA 110 (310) Persuasive Thinking, Reasoning, and Expression, 3 hours

4. 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 BIOL 133, CHEM 135, 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 311, BIOL 242, CHEM 454, ENGL 401, GEOG 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 2 hours selected from health or physical education and 1 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
ART 126 Image Making for Nonartists, 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 WSI 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 Slimnastics, 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
PE 202 Casting, 1 hour
PE 203 Gun Handling, 1 hour
PE 204 Snow Skiing, 1 hour
PE 205 Modern Dance and Choreography, 1 hour
PE 206 Folk and Square Dancing, 1 hour
PE 207 Fencing, 1 hour
PE 209 Advanced Tennis, 1 hour*
PE 210 Advanced Golf, 1 hour*
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; FREN, GER, SPAN 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 4-hour course including both lecture and lab. All of the other courses may be taken with the lab for 4 hours credit or without the lab for 3 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) Art Appreciation, 3 hours
      MUS 101 (300) Music Appreciation, 3 hours
      STA 104 (304) The Theatre Experience, 3 hours

4. Comparative Cultures, 3 hours
   ANTH 120 (320) Comparative Cultural Systems, 3 hours
   ART 102 (302) African, Asian, and 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  
ENGL 201 Literary Landmarks in Western Culture, 3 hours  
ART 103 Social History of Art, 3 hours  
FREN 204 A Literary Perspective on French Civilization, 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  
SPAN 204 A Literary Perspective on Spanish Civilization, 3 hours  

*Only 3 of the 6 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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<thead>
<tr>
<th>Undergraduate Major</th>
<th>School</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Accounting</td>
<td>BUS</td>
<td>B.S.B.A.</td>
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<tr>
<td>Anthropology</td>
<td>A&amp;S</td>
<td>B.A.</td>
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<tr>
<td>Art</td>
<td>A&amp;S</td>
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<tr>
<td>Art</td>
<td>A&amp;S</td>
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<tr>
<td>Biology</td>
<td>A&amp;S</td>
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<tr>
<td>Biology</td>
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<td>B.S.Ed.</td>
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<tr>
<td>Business Administration and Law</td>
<td>BUS</td>
<td>B.S.B.A.</td>
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<tr>
<td>Business</td>
<td>E&amp;P</td>
<td>B.S.Ed.</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Chemistry</td>
<td>AS</td>
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<tr>
<td>Child Development and Family Relations</td>
<td>AS</td>
<td>B.S.</td>
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<tr>
<td>Clinical Laboratory Sciences</td>
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<tr>
<td>Clothing, Textiles, and Merchandising</td>
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<td>Communication Disorders</td>
<td>E&amp;P</td>
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<td>Computer Information Systems</td>
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<tr>
<td>Computer Science</td>
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<td>Criminal Justice</td>
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<td>Electronic Engineering Technology</td>
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<td>Elementary Education</td>
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<td>English</td>
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<td>Environmental Health</td>
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<td>Finance</td>
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<td>Field</td>
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<td>E&amp;P/B.S.Ed.</td>
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<td>General Communications, Radio, and Television</td>
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<td>General Special Education</td>
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<td>Geography</td>
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<td>Geography/Planning</td>
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<td>Geology</td>
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<tr>
<td>German</td>
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<td>B.S.Ed.</td>
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<td>Health Information Management</td>
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<td>Health Services Management and Supervision</td>
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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. Eligible students may enroll in individual seminars without pursuing the entire program. The program consists of general seminars 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 courses are taught by members of the honors faculty. Students who complete at least 30 hours of honors instruction 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 for students by sponsoring 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 activities in international education, the university offers several programs of study in foreign countries. Internships in American schools for student practice teachers are arranged on demand in various locations in Latin America, including Colombia, Central America, and the West Indies. A liberal arts program is offered in London, and an archeological program is offered in Yucatan. Other programs are announced each year. Inquiries about student teaching opportunities should be directed to the director of field experiences and teacher placement in the School of Education and Psychology. Inquiries about any other programs should be directed to the director of international instructional programs. Information about Study Abroad opportunities through other institutions is available at the CAP Center.

**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 and 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.

Students with acceptable scholastic records in the first two years of the program 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. 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 on-going 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 School of Applied Sciences is to offer quality education in a variety of professional careers. In fulfilling this role, the school provides undergraduate and graduate educational programs in Cullowhee and Asheville.

The faculty of the school engage in instruction, research, and service. The primary activity of the faculty of the school 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; continuing education opportunities; maintaining currency in areas of expertise; active involvement in professional organizations; and scholarly activities including research, creative activities, presentations, and publications.

The School 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 Health Sciences.

Credit for Experiential Learning. The school awards undergraduate experiential learning credit in accordance with university guidelines for college-level competencies in its areas of instruction regardless of how the competency was achieved. A student must file a request for competency evaluation, using the form available in the dean's office, and provide additional information as requested. A portfolio, written examination, written report, letters of recommendation, oral presentation, and other supporting documentation may be required. The department head, the student's adviser, and a faculty member with appropriate expertise selected by the department head constitute a committee to evaluate the request. Committee recommendations must be approved by the department head and dean and filed with the registrar.

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.

Programs:

The Child Development and Family Relations program is designed to prepare individuals to work with children, families, and older adults in a variety of settings. Graduates obtain positions as preschool teachers; child development center directors; child, family, or parent specialists, or group home directors. The major also provides a sound developmental background for graduate studies in psychology, counseling, social work, child development, and family therapy.

The Clinical Laboratory Sciences program prepares individuals in applied biology, chemistry, and biochemistry for employment in research and hospital clinical laboratories, industry, and other laboratory environments. Graduates are eligible to take certification examinations offered by the American Society for Clinical Pathology (ASCP) and the National Certification Agency for Medical Laboratory Personnel (NCA). The program is accredited by the American Medical Association's Committee on Allied Health Accreditation (CAHEA) in collaboration with the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

The Clothing/Textiles/Merchandising major provides the knowledge and skills necessary to pursue a professional career as a buyer, manager, fashion coordinator, sales representative, or educational consultant. An internship in the fashion industry offers the opportunity for
practical application of course theory. Graduates have obtained positions as department heads, buyers and district managers in retail and specialty stores, cosmetics and apparel and textile manufacturing industries.

The Criminal Justice major produces graduates capable of attending to the complex needs of the criminal justice system and the crime problem. Crime is one of the most important issues in our society. In order for the criminal justice system to respond appropriately and effectively, we must produce better educated professionals who understand the interrelationship of the law, criminal behavior, the criminal justice system, and the demands of a democratic society. Graduates are prepared for professional careers in law enforcement, corrections, probation, parole, juvenile justice, and private security as well as advanced degree programs in criminology, criminal justice, and law. The criminal justice program was the first baccalaureate program to be awarded certification by the North Carolina Education and Training Standards Commission.

Electronics Engineering Technology is a high technology area providing opportunities in the broad field of electronics and electrical technology. As recommended by the Institute of Electrical and Electronics Engineers (IEEE) in its guidelines for engineering technology, graduates of this program can solve practical design problems, evaluate problems in industry, and use current information and practices to solve technical difficulties with electronic circuits. Upon graduation, employment opportunities are found in product design, product development and implementation, technical operations, or technical sales and services.

The Emergency Medical Care program combines paramedic level education with a foundation in health services management and readies the student for entry-level positions in emergency medical services supervision, education, and patient care. The program is fully accredited by the American Medical Association’s Committee on Allied Health Education and Accreditation (CAHEA) in cooperation with the Joint Review Committee on Educational Programs for the EMT-Paramedic. Graduates are eligible to write the national registry and state certifying examinations for paramedics.

Environmental Health Science is a preventative health curriculum that incorporates the areas of public health, industrial hygiene, and environmental protection into a comprehensive professional program. The program is fully accredited by the National Accreditation Council for Environmental Health Science and Protection.

The General Home Economics program is primarily designed to give students some knowledge and skills in Child Development and Family Relations, Clothing/Textiles/Merchandising, Food Service Management, Nutrition and Dietetics, and Interior Design. An internship provides students with an opportunity to utilize information from the various subject matter areas. Most students find positions with extension agencies.

Health Information Management (formerly Medical Records Administration) deals with the organization and management of health information systems, including planning and directing medical records systems that aid in patient care, medical research and evaluation, and quality assurance. The program is accredited by the American Medical Association’s Committee on Allied Health Education and Accreditation (CAHEA) in collaboration with the American Health Information Management Association. Graduates of the program are eligible to apply to take the national registration examination to become registered record administrators.

The program in Health Services Management and Supervision is intended for certified or registered allied health professionals with associate degrees. The program articulates with associate degree programs in health-related sciences exclusive of those specialties for which separate bachelor’s programs are offered by the school. The curriculum is designed to prepare clinical managers or supervisors for effective application of human resource management principles in health care agencies.

The Home Economics Education program, which is offered in collaboration with the School of Education and Psychology, is designed to prepare individuals to teach in junior high or high school. Courses in Child Development and Family Relations, Clothing/Textiles/Merchandising, Food Service Management, and Interior Design are required along with a
The program culminates with one semester of student teaching. Graduates find jobs in the public school system as home economics teachers or with extension agencies.

The Industrial Distribution program is designed to prepare individuals for career positions in engineering sales, sales management, and mid-management with wholesale distributors who purchase, store, sell, distribute, and service a wide variety of industrial products. The Industrial Distribution program is one of eight in the United States that is recognized by the Southern Industrial Distribution Association.

Industrial Technology deals with the tools and materials used in the production of industrial products and the skills to supervise industrial personnel. Graduates are qualified for supervisory positions in industries ranging from textiles to aerospace. A career path may start with working in production areas doing planning, time and motion studies, plant layout, first-line supervision, and later progressing to plant manager, plant engineer, or chief executive officer.

The Interior Design program emphasizes commercial design, residential interior design, and computer-aided design and drafting. Career opportunities include residential interior design, contract and commercial design, architectural space planning and management, retailing, furniture sales, design consultation, technical drafting, and illustration.

Manufacturing Engineering Technology is a high technology area offering challenge and opportunity in automation and computer-aided manufacturing. Graduates are employed in process engineering, facilities engineering management, project engineering, production line supervision, engineering services supervision, and quality assurance supervision. The Manufacturing Engineering Technology program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.

The Nursing program, accredited by the National League for Nursing and approved by the North Carolina Board of Nursing, enrolls (1) persons preparing to begin the practice of professional nursing and (2) registered nurses with hospital diplomas or associate degrees. Both groups receive the Bachelor of Science in Nursing degree. Those not previously licensed as RNs are qualified, upon graduation and with faculty approval, to sit for the National Council of State Board Licensure Examination for registered nurses. Classes are conducted in Cullowhee and Asheville, and the clinical nursing courses are offered at regional health care facilities and agencies throughout western North Carolina.

Western Carolina University cooperates with the University of North Carolina at Asheville through an interinstitutional agreement which allows students at the University of North Carolina at Asheville to complete their preprofessional courses at that institution and be eligible to apply for admission to the professional nursing program offered by Western Carolina University that leads to the Bachelor of Science in Nursing degree. Cooperative transfer agreements between WCU and several central and western North Carolina community colleges facilitate the entry of registered nurse alumni from those community colleges into the Department of Nursing’s Capstone program for RNs seeking the BSN degree. The Capstone option is designed to build upon the registered nurse’s experience, knowledge, and goals. Although the terminal objectives of the curriculum are the same for the generic (non-RN) and the Capstone options, the process of attainment of these goals is different. The upper division nursing courses of the Capstone plan can be completed in one academic year of full-time study.

The Nutrition and Dietetics program is approved by the American Dietetics Association. Clinical experience in hospitals and other health-care facilities is an integral part of the program. Graduates are qualified for entry-level nutrition or dietetic positions, for graduate study, or for further training through ADA approved/accredited preprofessional practice and internship programs. Program graduates who complete the 12-hour graduate-level Option for Preprofessional practice are eligible to take the national registration exam and become Registered Dietitians (RD’s).

Admission to Health Sciences and Nursing Programs. Acceptance and registration in any professional course in the Health Sciences or Nursing departments do not guarantee
admission to the junior-senior sequence in the major. Students are not officially in the professional segment of a program as candidates for a degree until they have received written notification of their admission. Applications for 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. An interview is 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. Application to the professional sequence is competitive. Eligibility requirements include 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 complete 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 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 in environmental health 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. Applications must be received by February 15, and applicants will be notified of the admission decision by March 15. Transfer students will be admitted with provisional status for one semester. Students admitted to the professional sequence will be required to maintain a GPA of 2.0 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. For students who enroll in this program to earn a first bachelor's degree, admission normally requires completion of 50 hours in preprofessional courses, including all general education requirements with a 2.0 GPA or, for articulating students, in those credits accepted in transfer. Students must be credentialed allied health professionals; one year of supervisory experience is preferred. Students in nursing, clinical laboratory sciences, health information management, emergency medical care, and environmental health are not eligible for admission except as candidates for a second bachelor's degree. A 2.0 GPA in each course in the major and in the discipline area is required of admitted students.

Nursing. Admission to the upper-division nursing major is competitive, and priority is given to the best qualified students to fill the limited number of seats in each class. Careful consideration is given to previous academic records, test scores, and adviser recommendations. To be eligible to apply for the upper-division nursing major, all students (1) must have a cumulative GPA of 2.25 on all previous college work, and (2) must have completed or must be in the process of completing 60 semester hours of college work, including BIOL 291/292, HSCC 260, and all program requirements. Applications from non-RNs must be received with all supporting materials not later than February 15. Notification of the admissions decision will be made during the week of March 15. Late applications will be considered on a space available basis. Registered nurses are invited to apply at any time of the year so that transfer credit can be evaluated and advisement about meeting any remaining course requirements may begin without needless delay.
Admission to the program is conditional upon maintenance of a minimum cumulative GPA of 2.25 and completion of all prerequisite courses with a grade of C or better. Retention in the nursing major thereafter depends upon the student's maintaining a 2.25 GPA overall and 2.25 in the major, taking and passing all nursing courses in sequence, and demonstrating the ability to perform in the clinical setting within the definitions of safe practice specified in the Department of Nursing Clinical Evaluation Tool.

DEPARTMENT OF CRIMINAL JUSTICE
William V. Pelfrey, Head
E. Davis, W. Hyatt, L. Moriarty

Major in Criminal Justice, B.S. Degree

General education, 41 hours
Program requirements, 3 hours: PSY 250

The major requires 60 hours as follows:
250 The Criminal Justice System, 3 hours
252 The Communication Process in Criminal Justice, 3 hours
311 The Juvenile Justice Process, 3 hours
320 The Law Enforcement Process, 3 hours
330 The Judicial Process, 3 hours
340 The Corrections Process, 3 hours
350 Criminal Justice Theory, 3 hours
352 Criminal Justice Planning, 3 hours
404 Substantive Criminal Law 3 hours
410 Victimology, 3 hours
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
Guided electives, 6 hours

General electives (24 hours), including at least 3 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

Major in Clinical Laboratory Sciences, B.S. Degree
General education, 41 hours
Program requirements, 31 hours: CHEM 135, 136, 241, 242, 271, 370; BIOL 291, 292, 413, 414
The major requires 55 hours as follows:
300 Instrumentation and Blood Collection, 1 hour
301 Analysis of Body Fluids, 2 hours
302 Clinical Microbiology, 4 hours
303 Hematology, 3 hours
304 Immunology, 3 hours
305 Clinical Parasitology, 2 hours
306 Immunohematology, 4 hours
307 Medical Mycology, 2 hours
308 Advanced Hematology, 3 hours
309 Clinical Biochemistry, 3 hours
310 Principles of Clinical Precepting, 1 hour
406 Laboratory Management, 2 hours
485, 486, 487, 488, 489 Clinical Practicums: Urinalysis, 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 493 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
230 Introduction to Environmental Health, 3 hours
310 Water Supply and Waste Water Treatment, 4 hours
320 Shelter Environment, 4 hours
330 Food and Milk Control, 4 hours
386 Field Practicum in Environmental Health, 3 hours
440 Air Quality Control, 4 hours
457 Industrial Hygiene, 3 hours
460 Environmental Health Problems, 1 hour
470 Epidemiology, 3 hours
475 Environmental Program Administration, 3 hours
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:
301 Introduction to Medical Record Administration, 3 hours
303 Planning and Organizing in Medical Record Administration, 2 hours
310 Fundamentals of Medicine for Medical Record Administration, 3 hours
321 Medical Record Practice Lab, 1 hour
401 Regulation of Health Care Facilities, 3 hours
402 Controlling Resources in Medical Record Administration, 2 hours
403 Medical Record Data Collection, 2 hours
404 Medical Record Classification Systems, 4 hours
405 Advanced Classification Systems, 2 hours
406 Topics In Medical Record Administration, 4 hours
483 Management Affiliation, 4 hours
484 Specialty Affiliation, 1 hour
487, 488 Medical Record Directed Practicum I, II, 4 hours
495 Seminar in Medical Records, 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
MSMS 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 School 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 57-58 hours as follows:
ND 132 Nutrition for Everyday Living, 3 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 231 Food Science, 4 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
CDFR 261 Dynamics of Marriage and Family Living, 3 hours

General electives (18-19 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 FSM 231, ND 330, and 12-16 hours selected from junior-senior level courses in Food Service Management or Nutrition and Dietetics.

**DEPARTMENT OF HUMAN ENVIRONMENTAL SCIENCES**
*Davia Allen, Head*

*J. Baldwin, L. Cowan, J. Dowell, J. Hall, S. Skinner, M. Yops.*

**Major in General Home Economics, B.S. Degree**

General education, 41 hours

The major requires 61 hours, including 6 hours in core courses (HE 210, 410) and the following:
FSM 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 Dynamics of Marriage and Family Living, 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 64 hours, including the 6-hour core (HE 210, 410) and the following:
261 Dynamics of Marriage and Family Living, 3 hours
361 The Child Development Center Environment, 3 hours
362 Methods for Child Development Centers, 3 hours
363 Child Development, 3 hours
364 Survey of Human Development, 3 hours
463 Infancy, 3 hours
464 Parent Involvement, 2 hours
465 Day Care Management, 3 hours
466 Child Development Methods II, 3 hours
467 Parent Education, 3 hours
468 Families: Organization and Function, 3 hours
469 Family Gerontology, 3 hours
483, 484, 485 Internship, 3 hours each course
496 Seminar in Child Development, 1 hour
ND 330 Human Nutritional Needs, 3 hours

Related electives (9 hours) approved by the adviser.

General electives (23 hours), including at least 3 hours at the junior-senior level, are required to complete the program.

Major in Clothing, Textiles, and Merchandising, B.S. Degree

General education, 41 hours

Program requirements, 15 hours: MKT 301, 302, 304; ACCT 161; ECON 130

The major requires 54 hours, including the 6-hour core (HE 210, 410) and the following:
140 Fashion Analysis, 3 hours
141 Clothing Selection and Construction, 3 hours
242 Textiles, 3 hours
245 Dynamics of the Fashion Industry, 3 hours
246 Fashion Buying and Merchandising, 3 hours
340 Fashion in Retrospect, 3 hours
343 Tailoring, 3 hours
344 Fashion Design Fundamentals, 3 hours
346 Merchandising Apparel for Profit, 3 hours
347 Fashion Promotion, 3 hours
441 Textile and Apparel Economics, 3 hours
443 Cultural Aspects of Clothing, 3 hours
445 Apparel and Home Furnishing Product Analysis, 3 hours
446 Principles and Techniques of Fashion Retailing, 3 hours
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 210, 410) and the following:

FSM 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 Dynamics of Marriage and Family Living, 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 210, 410) and the following:

153 Introduction to Interior Design, 2 hours
253 Space Planning and Color, 4 hours
254 Perspective Drawing, 4 hours
351 Lighting Design for Interiors, 3 hours
353 Residential Design, 4 hours
355 History of Interiors and Furnishings I, 3 hours
356 Methods and Materials of Interior Design, 3 hours
357 Contract Design I, 4 hours
358 History of Interiors and Furnishings II, 3 hours
456 Contract Design II, 4 hours
458 Professional Practice in Interior Design, 3 hours
459 Portfolio Review, 1 hour
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, 464, 467, 468.

Minor in Clothing and Textiles
The minor requires 21 hours, including 140, 141, 242, 340, 343, 344, 441.

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

Minor in Fashion Merchandising
The minor requires 21 hours, including CTM 140, 242, 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 FSM 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 DeSain, Head


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 55 hours as follows:
IET 150 Engineering Graphics, 4 hours
CS 150 Computer Programming I, 4 hours
MET 366 Manufacturing Materials, 3 hours
EET 201 Circuit Analysis I, 4 hours
EET 202 Circuit Analysis II, 4 hours
EET 311 Solid State Devices, 4 hours
EET 312 Analog Integrated Circuits, 4 hours
EET 321 Digital Integrated Circuits I, 4 hours
EET 322 Digital Integrated Circuits II, 4 hours
EET 341 Advanced Circuit Analysis, 3 hours
EET 431 Microprocessor Fundamentals, 4 hours
EET 432 Microprocessor Applications, 4 hours
EET 451 Control Systems, 3 hours
EET 462 Communication Systems, 3 hours
EET 478 Senior Design Project Proposal, 1 hour
EET 479 Senior Design Project, 3 hours
General Electives (9 hours) at the junior-senior level are required to complete the program.
Major in Industrial Distribution, B.S. Degree

General education, 41 hours

Program requirements, 16 hours: MATH 130, 170, 144; 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 422 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 422 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, which meets the guidelines for manufacturing engineering technology programs of the Society of Manufacturing Engineers, 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 approved by 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 co-sponsored 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 program in occupational safety and health.

DEPARTMENT OF MILITARY SCIENCE
Michael B. Mountain, Head
T. Allison, J. P. Fletcher, B. Stephens, B. Colgan, D. Waldroup

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; development of leadership fundamentals; to gain a basic understanding of associated professional knowledge, 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

Major in Nursing, BSN Degree/Generic 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:
340 Basic Nursing Skills, 3 hours
350 Introduction to Nursing Science, 2 hours
353, 355, 466, 467 Nursing Science I, II, III, IV, 18 hours
383, 385, 486, 487 Clinical Practicum I, II, III, IV, 15 hours
460 Nursing Leadership and Management, 2 hours
470 Nursing Research, 3 hours
475 Perspectives of the Nursing Profession, 2 hours
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).

Major in Nursing, BSN Degree/Capstone Option for Registered Nurses

The Capstone option is an upper-division program for registered nurses leading to a BSN degree. After completing the prerequisites, whether at WCU or by transfer, the student must meet the criteria for admission to the professional sequence for progression to the nursing courses.

The curriculum option is designed to build upon the registered nurses' experience, knowledge, and goals. Although the terminal objectives of the curriculum are the same for the generic and the Capstone options, the process of attainment of these goals is different. The upper division nursing courses of the Capstone plan can be completed in one academic year of full-time study.

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:
301 Transition to Professional Nursing, 3 hours
302 Health Promotion in the Community, 3 hours
384 Practicum in Community Health Nursing, 3 hours
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)
460 Nursing Leadership and Management, 2 hours
470 Nursing Research, 3 hours
475 Perspectives of the Nursing Profession, 2 hours
480 Independent Study, 1-2 hours
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.

*For example, part of the generic-option course NSG 353 deals with basic care of the pregnant woman and newborn. Registered nurses may reasonably be expected to have mastered this course content and so are given the opportunity to demonstrate their competence by examination. Another part of NSG 353 is material expected to be new to RN students (e.g., prevention of illness in contrast to care of the sick, which is traditionally emphasized in pre-baccalaureate nursing education programs.) Prevention therefore is taught to both the generic students (in NSG 353) and the RN students (in NSG 302). The course objectives that address prevention are identical in the two courses.
The role of the School 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 school 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 school and its sister schools. Many departments in the school are becoming more actively involved in teacher preparation.

Scholarly productivity through a variety of discipline-related activities is essential to the growth of the school 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 school and university in the broader academic world.

The activities of the school 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. School 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


Artist in Residence: D. Nichols

Major In Art, B.F.A. Degree

General education, 41 hours

Program requirements, 3 hours: PHIL 310

The major requires 63 hours as follows:

131 Drawing I, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
141 Drawing II, 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 in no more than two areas, selected from painting/drawing, printmaking, sculpture, ceramics, glass, 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 Drawing I, 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

Program requirements, 3 hours: STA 250.

The major requires 51 hours as follows:
131 Drawing I, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
141 or 142 Drawing II or Three-Dimensional Design, 3 hours
461 Art Education, 3 hours
462 Art Education Philosophy, 3 hours
463 Art Education Materials and Methods, 3 hours

Art history electives: 6 hours at the junior-senior level
18 hours art studio: 233, 234, 241, 251, 256, 372;
3 hours art studio electives selected from 252, 270, 458.

The professional education sequence (26 hours) for secondary and special subject teaching, exclusive of the methods course, and general electives (7 hours) at the junior-senior level 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
Clifford R. Lovin, 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 H. Lamb, Head


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 Physiology, 3 hours
333 Cell and Molecular Biology, 3 hours
498 Senior Thesis I, 2 hours
499 Senior Thesis II, 1 hour
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.
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 (12-20 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; STA 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 Physiology, 3 hours
333 Cell and Molecular Biology, 3 hours
498 Senior Thesis I, 2 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 2 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 and 333.

DEPARTMENT OF CHEMISTRY AND PHYSICS

Richard Berne, Head

J. Bacon, J. Bassett, D. Butcher, P. Heckert, G. Liming, T. Moody, G. Morris, G. Pool,
F. Prochaska, E. Vassian, R. Woosley.

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
432 Instrumental Analysis, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 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 pre-dental 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
432 Instrumental Analysis, 3 hours
352 Physical Chemistry I, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 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: STA 250; 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
432 Instrumental Analysis, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
451 Biophysical Chemistry, 4 hours
ACCT 161 Accounting for Non-Business Majors, 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
STA 312 Group Discussion and Conference, 3 hours
STA 315 Organizational and Industrial Communication, 3 hours
ENGL 401 Writing for the Professions, 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 46 hours as follows:

130-131 or 230-231 Introductory Physics or General Physics, 8 hours
302 Electronics, 4 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 (27 hours), including at least 21 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, 44 hours**

130, 131 General Botany and General Zoology, 8 hours
232 General Ecology, 3 hours
242 Genetics and Evolution, 3 hours
312 Molecular Biology and Physiology, 4 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, 42 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
432 Instrumental Analysis, 3 hours
352 Physical Chemistry I, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
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, 46 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, 1-5 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 Speech and Theatre Arts, B.A. Degree
General education, 41 hours

Program requirements, 6 hours: MFL 231-232 or 240

The major requires 39 hours as follows:
250 Introduction to Speech Communication, 3 hours
Concentration (36 hours) selected from:
Theatre: 132, 140, 232, 240, 300, 301, 350, 400, 401; 330 or 335 or 338; and 5 hours in junior-senior electives.
Speech: 311, 312; 313 or 314; 315 or 410; 320; 321 or 420; 411; 412 or 413 or 495; RTV 250; and 9 hours in junior-senior electives.

To complete the program, a total of 42 hours is required, including a minor, second major, or other approved program and at least 18 hours of general electives. At least 18 or 28 of the hours taken must be at the junior-senior level.

Major in Theatre, B.F.A. Degree
General education, 41 hours

The major requires an entrance audition or interview and 64 hours as follows:
130 Makeup, 1 hour
132 Stagecraft, 4 hours
140 Acting I, 3 hours
232 Concept Creation, 3 hours
245 Acting for the Camera I, 3 hours
250 Introduction to Speech Communication, 3 hours
300, 301 Dramatic Literature and Criticism I, II, 6 hours
350, 351 Directing I, II, 6 hours
400, 401 History of the Theatre I, II, 6 hours
486 Theatre Production, 9 hours (one summer of approved theatre experience)
499 BFA Thesis, 2 hours

Electives (6 hours), selected from 330, 335, 338
Concentration (12 hours) selected from:
Acting and Directing: 240, 340, 345, 441, 450, 451, RTV 445
Design: 330 or 335 or 338; 430, 435, 438, 470

General electives (23 hours), including at least 4 or 7 hours at the junior-senior level, are required to complete the program.

**Major in Radio and Television, B.A. Degree**

General education, 41 hours

Program requirements, 6 hours: MFL 231-232 or 240

The major, which is designed for students planning to become managers in the telecommunications field, requires the following 39 hours:
STA 250 Introduction to Speech Communication, 3 hours
STA 315 Organizational and Industrial Communication, 3 hours
RTV/JOUR 140 Introduction to Mass Communications, 3 hours
RTV/JOUR 301 Writing for Mass Communications, 3 hours
RTV 250 Fundamentals of Broadcasting, 3 hours
RTV 251 Broadcast Writing, 3 hours
RTV 354 Radio Production I, 3 hours
RTV 355 Television Production I, 3 hours
RTV 457 Radio and Television Programming, 3 hours
RTV 458 Broadcast Sales and Promotion, 3 hours
RTV 459 Broadcast News, 3 hours
RTV 460 Broadcast/Speech Ethics and Responsibilities, 3 hours
Elective (3 hours) selected from STA 311, 312, 313, 314, 483, 495

To meet degree requirements, an additional 42 hours are required, including 18 hours of general electives and a minor, second major, or other approved program. The courses taken must include at least 24 hours at the junior-senior level. Students may minor in speech or theatre, but courses taken in these areas in the major may not be counted toward the minor.

**Major in General Communications, Radio and Television, B.S. Degree**

General education, 41 hours

The major, which is designed for students planning a production career in the telecommunications field, requires the following 39 hours:
STA 250 Introduction to Speech Communication, 3 hours
RTV/JOUR 140 Introduction to Mass Communications, 3 hours
RTV 250 Fundamentals of Broadcasting, 3 hours
RTV 251 Broadcast Writing, 3 hours
RTV 253 Comparative Studies in Film and Television, 3 hours
RTV 354 Radio Production I, 3 hours
RTV 355 Television Production I, 3 hours
RTV 454 Radio Production II, 3 hours
RTV 455 Television Production II, 3 hours
RTV 456 Broadcast Operations, 3 hours
RTV 460 Broadcast/Speech Ethics and Responsibilities, 3 hours
Electives (6 hours), including at least 5 hours at the junior-senior level, selected from STA 140, 132, 245, 311, 312, 320, 495; RTV/JOUR 301; RTV 353, 445, 483

To complete the program, a total of 48 hours is required, including at least 12 hours of general electives and a minor, second major, or other approved program. The courses taken must include at least 28 hours at the junior-senior level. Students may minor in speech or theatre, but courses taken in these areas in the major may not be counted toward the minor.
Major in Speech and Theatre Arts, B.S.Ed. Degree

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

Minor in Speech

The minor requires 21 hours, including 250, 311, 312 or 313, 320, and 9 hours of speech electives.

Minor in Theatre

The minor requires 22 hours, including 132, 140, 232, 350, and 9 hours of theatre electives.

Minor in Radio and Television

The minor requires 24 hours, including RTV/JOUR 140; RTV 250, 251, 354, 355, and 9 hours of departmental electives approved by the department head.

Minor in Communications

The minor requires 24 hours, including MKT 301, 302; ACCT 161 or ECON 130 or MGT 300; CIS 251; JOUR/RTV 140, 301; PSC 302 or 303; STA 315 or 410. Students whose majors require any of these courses will complete the minor by selecting electives from STA 314, 315, 410, 411, and junior-senior journalism and radio/television courses approved by the adviser.

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; and 15 hours of junior-senior English courses, 9 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, 400, 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: JOUR/RTV 140, 301, 302, 401, 420; JOUR 389 or 483; 6 hours selected from ENGL 306, 307, 312, JOUR 303, 304, 393, 402, 403, 414; and 6 hours selected from junior-senior English literature courses.

To complete the program, a total of 42 hours is required, including a minimum of 18 hours of general electives, 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 Journalism

The minor requires 18 hours, including 12 hours in journalism and 6 hours of electives selected from journalism and/or writing courses.

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.

DEPARTMENT OF GEOSCIENCES AND ANTHROPOLOGY

Jeffrey W. Neff, Head


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
250 Economic Geography, 3 hours
320 Map Interpretation, 3 hours
322 Cartography, 4 hours
324 Remote Sensing, 4 hours
326 Research Methods in 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
- 250 Economic 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
- 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, 461, 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 the 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; GEOL 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, 250, and 15 hours of electives above the freshman level.
Minor in Geography-Planning
The minor requires 23 hours, including 150, 250, 320, 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 33 hours including 9 hours selected from 132-133, 231-232; 21 hours of junior-senior history electives to include 3 hours in United States, 3 hours in European, and 3 hours in non-Western history; and 397.
To complete the program, a total of 48 hours is required, including a minor, second major, or other approved program and at least 18 hours of general electives. At least 27 hours of the courses taken must be at the junior-senior level.

Major in History, B.S. Degree
Program requirements, 4 hours: MATH 170, 171
All other requirements for the degree, including those in the major, are the same as those listed above for the Bachelor of Arts degree, except that there is no foreign language requirement.

Minor in History
The minor requires 21 hours, including 132-133 or 231-232 and 15 hours of junior-senior history electives.

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
MATH 153, 255 Calculus I, II, 3 hours
MATH 254 Matrix Theory, 3 hours
MATH 270 Statistical Methods I, 3 hours
Electives (12 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 33 hours in core courses as follows:
153, 255, 256 Calculus I, II, III, 12 hours
262 Introduction to Linear Algebra, 3 hours
310 Discrete Structures, 3 hours
320 Ordinary Differential Equations, 3 hours
323 Advanced Calculus I, 3 hours
361 Introduction to Abstract Algebra, 3 hours
370 Statistical Theory I, 3 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 20 hours of general electives, including a minimum of 15 hours at the junior-senior level, or
(2) a total of 38 hours, including a second major, minor, or other approved program and at least 12 hours of general electives. Of the total hours, 33 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, 15 hours: CS 150; STA 250; and PHYS 230-231.

The major requires 37 hours as follows:
153, 255, 256 Calculus I, II, III, 12 hours
262 Introduction to Linear Algebra, 3 hours
270 Statistical Methods I, 3 hours
300 Problem Solving, 2 hours
310 Discrete Structures, 3 hours
323 Advanced Calculus I, 3 hours
361 Introduction to Abstract Algebra, 3 hours
411 Foundations in Geometry, 3 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 general electives (7 hours), including 5 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 24 hours, including CS 150, MATH 153, 255, 256, and 8 hours of electives in mathematics courses numbered 254 or higher.

DEPARTMENT OF MODERN FOREIGN LANGUAGES
Patricia A. Umfress, Head

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, 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, German, or Spanish Civilization, I, II, 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, 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, German, or Spanish Civilization, I, II, 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. Students who fail to meet minimum standards on the music aptitude examination may be required to enroll in MUS 138 and 139 (Ear-Training Laboratory) before enrolling in MUS 152 or 177.

Students must pass an audition in applied music or successfully complete MUS 170 before enrolling in individual instruction courses. A jury is given at the end of each semester of preparatory work to determine the student's eligibility for individual instruction. Credit earned in preparatory study will not apply toward applied music requirements.

By the end of the second semester at the 100 and 200 levels in the applied music principal, each student must pass a qualifying examination in order to enroll in the next sequence (200 or 300 level) applied music courses. A prerequisite for taking the qualifying examination a second time is to repeat the appropriate 100 or 200 level course (MUS 1/233, 1/237, 1/243, 1/247, 1/257, 1/263, or 1/267).

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 senior performance examination or recital in the principal applied area for approval of the appropriate faculty committee before a degree will be granted.

Major in Music, B.A. Degree
General education, 41 hours
Program requirements, 6 hours: MFL 231-232 or 240

The major requires 41 hours as follows:
152, 153 Aural Skills Laboratory, 2 hours
177, 178 Basic Musicianship, 6 hours
252, 253 Aural Skills Lab, 2 hours
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 12 hours and completion of the 300 level of proficiency
Applied music electives excluding ensembles (piano required unless it is the principal), 4 hours, or with music industry option, 0-2 hours
Music industry option must include upper-division music elective, 2-4 hours

To complete the program, 40 hours, including a minimum of 23 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 senior level applied principal (4 hours); 31 elective hours to include 12 hours exclusive of music courses.
Music Industry Option: ACCT 161; MKT 301, 302; CIS 251; BA 133; LAW 230; MGT 300; MUS 378; 16 hours electives.

Minor, second major, or approved program, 40 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 55 hours, including a 32-hour core and 23 hours in general or instrumental music as follows:
152, 153 Aural Skills Laboratory, 2 hours
168 String Class, 1 hour
177, 178 Basic Musicianship, 6 hours
252, 253 Aural Skills Lab, 2 hours
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

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 4 hours 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, 177, 178; 4 hours of applied music in voice or an instrument; 5 hours in class piano, voice, brass, woodwind, string, and percussion, depending upon the student's area of applied music; 2 hours in ensemble; and 3 hours of electives.

NATURAL RESOURCES MANAGEMENT PROGRAM

Lawrence G. Kolenbrander, Program Coordinator

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 250, 320, 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, E. Szendrei.

Major In Philosophy, B.A.
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

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 12-15 hours in junior-senior philosophy electives and at least 12 hours of general
 electives. 24-27 hours are required 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
Gordon Mercer, Head

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.

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 132, 133 World Civilization, 6 hours
Two of the following four groups: ECON 231-232, GEOG 150-250, 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.

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; STA 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 132, 133 World Civilization, 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

Wilburn Hayden, Head


The Department of Social Work is accredited by the Council on Social Work Education. The department's primary objectives are the teaching and graduation of bachelor's degree social workers who are competent to enter professional social work practice as generalists. No academic credit is given for prior life or work experience for the field placement requirements. Transfer credits are generally given only for work done at another accredited social work program.

Students who meet university retention requirements are eligible for admission to the social work program. Retention in the program is based upon criteria stated in the Code of Ethics of the National Association of Social Workers. The full statement of approved retention policies and procedures is available from the department head.

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.
The ultimate goal of the School of Business at Western Carolina University is the development of responsible people, and the primary objective is to provide a forum for examining the principles, needs, and issues which encompass the world of business. Programs are offered that are designed to develop prospective managers, specialists, service-industry professionals, and entrepreneurs.

Western Carolina University's School of Business is among three hundred institutions in the United States whose excellence in graduate and undergraduate education is recognized through full accreditation by the American Assembly of Collegiate Schools of Business. Its quality educational programs are based on:

1) recruiting motivated students;
2) providing a faculty dedicated to high standards in teaching, service, and research; and
3) maintaining a curriculum enriched by depth, breadth, and flexibility to meet the changing needs of business.

While enjoying the opportunity for interaction with the faculty, students use advanced computer technology to increase decision-making skills. Students gain a broad liberal arts foundation and expertise in the functional areas of business. Building upon the skills of analytical thinking and effective communication, students develop a sensitivity to human needs, teamwork, ethical and legal issues, and global concerns. The school's regional, national, and international ties with business, government, and professional groups are utilized to enhance the placement of graduates.

The School of Business intends to provide equal opportunities for all through careful blending of human and financial resources. By accentuating growth in the capabilities of people, the school seeks to improve the quality of life in the region served.

Programs of study include: Bachelor of Science in Business Administration, Master of Business Administration, and Master of Project Management. In cooperation with the School 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 school 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 School 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.

Only those students who have been admitted officially to a program in the School of Business may file an application for graduation for the Bachelor of Science in Business Administration degree.

School-level program requirements for the B.S.B.A. degree include MATH 130; ECON 231, 232. General electives taken in each B.S.B.A. program must be selected to assure that 40 percent of the total credits (51 hours to include MATH 130 and ECON 231 and 232) are taken outside the School of Business.

* Students seeking a Bachelor of Science in Education degree with a major in business education must meet requirements of the School of Education and Psychology for admission to the professional sequence.
The Common Body of Knowledge. Each program leading to the Bachelor of Science in Business Administration degree requires completion of the business administration core or common body of knowledge (36 hours) and 21 additional hours in a major field. ACCT 251-252 and ECON 231-232 provide an important foundation to courses at the junior-senior level in the School of Business. Junior standing (60 hours) is prerequisite for enrollment in all courses numbered 300 and above in the School of Business. The required courses in the core are:

- ACCT 251, 252 Accounting Principles I, II, 6 hours
- ECON 235 Statistics, 3 hours
- FIN 305 Financial Management, 3 hours
- CIS 251 Management Information Systems, 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
- BA 404 Strategic Management, 3 hours
- MKT 301 Principles of Marketing, 3 hours
- OA 304 Business Communications, 3 hours

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.

Second Major in Business Administration. The requirements for a second major in business administration are identical with the 36-hour business administration core described above. Substitutions may be made only with the approval of the dean of the School of Business.

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

C. Claude Teagarden, Head


Major in Accounting, B.S.B.A Degree

General education, 41 hours

Program requirements, 9 hours: MATH 130; ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours:
- 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

ACCT 475 is the capstone course for Accounting major and, effective beginning with majors declared in Fall 1991, must be satisfactorily completed in order for a student to graduate with a degree in Accounting.

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

Major in Computer Information Systems, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours: MATH 130; ECON 231, 232
The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours:

- **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

CIS 465 is the capstone course for CIS majors and, effective beginning with majors declared in Fall 1991, must be satisfactorily completed in order for a student to graduate with a degree in Computer Information Systems.

General electives (21 hours), including at least 15 hours at the junior-senior level, are required to complete the program.

**DEPARTMENT OF ADMINISTRATIVE SERVICES**

*Retha Kilpatrick, Head*


**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
- **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
- **BA 404 Strategic Management**, 3 hours
- **MKT 301 Principles of Marketing**, 3 hours
- **OA 300 Word Processing II**, 3 hours
- **OA 402 Administrative Management and Policy**, 3 hours
- **OA 304 Business Communications**, 3 hours
- **OA 340 Information Processing Systems**, 3 hours

and 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.

**Major in Business Administration and Law, B.S.B.A. Degree**

General education, 41 hours

Program requirements, 9 hours: MATH 130; ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours:

- **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 (21 hours), including at least 9 hours at the junior-senior level, are required to complete the program.

Major in Office Administration, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours: MATH 130; ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours:
300 Word Processing II, 3 hours
393 Topics in Office Administration or approved elective, 3 hours
340 Information Processing Systems, 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 (21 hours), including at least 9 hours at the junior-senior level, are required to complete the program.

DEPARTMENT OF ECONOMICS AND FINANCE

William L. Boyd, Head


Major in Economics, B.S.B.A. Degree

General education, 41 hours

Program requirements, 3 hours: MATH 130; ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business; and a 21-hour concentration selected from one of the following:
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; ECON 410.

General electives (21 hours), including at least 9 hours at the junior-senior level, are required to complete the program.

Major in Finance, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours: MATH 130; ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and a 21-hour concentration selected from one of the following:
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 (21 hours), including at least 9-12 hours at the junior-senior level, are required to complete the program.

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, BSBA. Degree
General Education, 41 hours
Program requirements, 15 hours: MATH 130, ECON 231, 232; and one year of modern foreign language from FREN, GERM, or SPAN 231, 232, or 240.

The major requires 36 hours in the core courses as specified by the School of Business and the following 24 hours:
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
MFL 321 or 322, French, German, or Spanish Civilization, 3 hours
HIST 317 History of 20th Century International Relations, 3 hours
HIST 416 Europe, 1914-1955, 3 hours
HIST 441 Western Imperialism, 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
SSC 414 Cross-Cultural Communication, 3 hours
SOC 434 Regional and Societal Development, 3 hours

General electives (12) including at least 9 hours at the junior-senior level outside the School of Business are required to complete this program.
Major in Management, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours: MATH 130; ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours:
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

MGT 495 is the capstone course for Management majors, and effective beginning with majors declared in Fall 1991, must be satisfactorily completed in order for a student to graduate with a degree in Management.

Program electives (21 hours), including at least 9 hours at the junior-senior level, are required to complete the program.

Major in Marketing, B.S.B.A. Degree

General education, 41 hours

Program requirements, 9 hours: MATH 130; ECON 231, 232

The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours:
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 (21 hours), including at least 9 hours at the junior-senior level, are required to complete the program.
The School 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 school. 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, industrial arts, physical education, or special education (general, mental retardation, or learning disabilities). The disciplinary focus areas available are the following: Anthropology, Art, Economics, English, French, Geography, Geology, German, History, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Spanish, Speech, Theatre. 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 (a student may be considered suitable in one area and unsuitable in another) is determined on the basis of demonstrated academic ability and other personal characteristics conducive to effective teaching. 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 at the time of admission; (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 these requirements and 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.

Admission to the program is competitive, and the requirements stated above are the minima 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. A summary of activities and evaluations for each assignment will become 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; SPED 335; PSY 320, 321; EDRD 323; *Methods, 490, 495.

*Students majoring in biology, science, social sciences, speech and theatre arts take EDSE 322. English majors take ENGL 314. 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; and (8) completion of the applicable professional education sequence except for student teaching and the student teaching seminar.

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 a student teaching performance has been successful; (4) complete teacher placement records; (5) complete applications for certification and file them with the dean of the School of Education and Psychology; (6) receive a recommendation from the head of the department of the teaching major; (7) request NTE scores to be sent to WCU; (8) receive a professional recommendation for Class A certification by the dean of the School of Education and Psychology; (9) pay the fee required by the State Board of Education for the issuance of teacher certificates.

DEPARTMENT OF ADMINISTRATION, CURRICULUM, AND INSTRUCTION
Donald M. Chalker, Head

Credit for Experiential Learning. The department awards undergraduate credit for experiential learning in accordance with university guidelines. A student must present complete documentation of experiences to the department head. A committee, one member of which will be from outside the department, considers each case individually to determine if the competencies are adequate for credit to be awarded and how much credit, if any, is to be granted. Methods that may be used to determine proficiency include observation, oral and written examinations, presentation of completed work, and other documentation or evidence of quantity and quality of experience. A personal interview is highly recommended. If approved by the department head and the dean, the committee’s recommendations must be filed with the registrar.

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.

The subject areas in which majors are available are:

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<td>Theatre Arts</td>
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</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.

DEPARTMENT OF ELEMENTARY EDUCATION AND READING
George M. Schuncke, Head

Major in Elementary Education, B.S.Ed. Degree
General Education, 41 hours

The major requires 39 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 Practicum in Teaching Reading, 3 hours
PE 360 Skills in Promoting Healthful Living, 3 hours
HIST 341 North Carolina History, 3 hours
MATH 230 Theory of Arithmetic I, 3 hours
MATH 231 Theory of Arithmetic II, 3 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;
3. General electives, 1-4 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 Practicum in Teaching 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 3-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 EDEL303; EDEL467; 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

Robert Ray, Head


Major in Physical Education, B.S.Ed. Degree

General education, 41 hours

The major requires 36 hours as follows:
HEAL 230 High Level Wellness, 2 hours
HEAL 250 First Aid and Safety Education, 2 hours
PE 251 Dance Dynamics, 3 hours
PE 261, 262, 263 Skills Acquisition I, II, III, 3 hours
PE 310 Management of Physical Education and Sport Activities, 2 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 (27 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:
240 Foundations of Therapeutic Recreation, 3 hours
253 Activity Skills for Special Populations, 2 hours
352 Therapeutic Recreation Processes and Techniques, 3 hours
385 Pre-Internship Seminar, 1 hour
Major in Parks and Recreation Management, B.S. Degree

General education, 41 hours

Program requirements, 10 hours: STA 250; MATH 170, 171; CIS 251

The major requires 63 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 (18 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, 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 19-20 hours in addition to courses taken as general education: HEAL 250, PE 413, 422, 423; two courses selected from PE 410, 411, 418; one course selected from PE 310, 312; and one course selected from PE 261, 262, 263. The minor is not open to physical education majors.

**Minor in Physical Education**  
The minor requires 19-20 hours, including HEAL 250, PE 310, 312, 325, 413; one course selected from PE 253, 350, 355; one course selected from PE 410, 411, 418; and 2 hours selected 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

Major in Special Education, General, B.S.Ed. Degree
Students who complete this major are eligible for certification in learning disabilities and mental retardation in North Carolina.

General education, 41 hours
The major requires 40 hours as follows:
240 The Exceptional Child, 3 hours
310 Evaluation of the Exceptional Child, 3 hours
340 Math and Science for Mildly Handicapped K-12 Students, 3 hours
341 Language Arts for Mildly Handicapped K-12 Students, 3 hours
401 Introduction to Learning Disabilities, 3 hours
405 Introduction to Mental Retardation, 3 hours
416 Professional Communication Skills for Educators, 2 hours
417 Behavioral Management of the Exceptional Child, 3 hours
442 Independent Living Skills for Mildly Handicapped K-12 Students, 2 hours
450 Individual Educational Plans for Students with Handicaps, 3 hours
486 Practicum in Mental Retardation, 1 hour
487 Practicum in Learning Disabilities, 2 hours
EDCD 301 Speech and Language Development, 3 hours
EDCD 320 The Clinical Process, 3 hours
EDCD 370, 371 Phonetics and Articulation Disorders, 6 hours
EDCD 372 Speech Science, 3 hours
EDCD 450 Introduction to Audiology, 3 hours
PSY 474 Emotionally Disturbed Child and Adolescent, 3 hours

The professional education sequence (21 hours), general electives (2 hours) and a disciplinary focus area (24 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 or 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, 371 Phonetics and Articulation Disorders, 6 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 478 or 574 Fluency Disorders or Voice and Organic Disorders of Speech, 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 requires 18 hours, including 15 hours from special education courses, and 3 hours of related electives. Students who desire to earn teacher certification in special education should consult the department head.

DEPARTMENT OF PSYCHOLOGY

Bruce B. Henderson, 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
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 Psychology

The minor requires 24 hours including 250, 251 (or equivalent) 252 (or equivalent), and 15 hours of approved psychology electives.

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.
THE GRADUATE SCHOOL

Anthony A. Hickey, Dean

Steven P. Yurkovich, Associate Dean

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 ten 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, and elementary education.

Master of Arts: Majors in American History, Art Education, English, Music, Psychology, (Clinical, General, and School), and Studio Art.


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: 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, MAT, or NTE. Please consult the Graduate Catalog 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 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.

Complete information will be found in the Graduate Catalog Issue of The Record which is available from the office of the dean.
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, and the Master of Science in Home Economics.

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.
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 P1b Contemporary Institutions
F2 Mathematics P2 Physical and Biological Sciences
F3 Thinking, Reasoning, Expressing P3a Humanities
F4 Computer Literacy P3b Fine/Performing Arts
F5 Leisure and Fitness P4 Comparative Cultures
P1a Human Behavior 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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<td>HEAL</td>
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<td>HSMR</td>
<td>Health Information</td>
<td>Health Sciences</td>
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<td>Management(formerly</td>
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<td>Medical Record Administration)</td>
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<td>HSMS</td>
<td>Health Services Management and Supervision</td>
<td>Health Sciences</td>
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<tr>
<td>HSMT</td>
<td>Clinical Laboratory Sciences (formerly Medical Technology)</td>
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<td>IDSN</td>
<td>Interior Design</td>
<td>Human Environmental Sciences</td>
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<td>IET</td>
<td>Industrial Education; Industrial Technology; Industrial Distribution</td>
<td>Industrial and Engineering Technology</td>
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<td>LAW</td>
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<td>MET</td>
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<td>Political Science</td>
<td>Political Science and Public Affairs</td>
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<td>PSY</td>
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<td>REL</td>
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<td>Radio and Television</td>
<td>Communication and Theatre Arts</td>
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<td>SM</td>
<td>Sport Management</td>
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<td>SOC</td>
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<td>SPAN</td>
<td>Spanish</td>
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<tr>
<td>SPED</td>
<td>Special Education; Mental Retardition; Learning Disabilities; Gifted and Talented</td>
<td>Human Services</td>
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<td>SSC</td>
<td>Social Sciences</td>
<td>Social Sciences</td>
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<td>STA</td>
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<td>Communication and Theatre Arts</td>
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<td>TR</td>
<td>Therapeutic Recreation</td>
<td>Health, Physical Education, and Recreation</td>
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<tr>
<td>USI</td>
<td>University Studies, Interdisciplinary</td>
<td>Academic Affairs</td>
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</table>
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: 251.

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 page 122.

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 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)
651 Managerial Accounting.(3)
661 Advanced Theory.(3)
662 Taxation and Business.(3)
682 Research Project in Accounting.(3,R6)
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 (320) 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, fossils, 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>380</td>
<td>(SOC 380) Ethnographic Research Methods.</td>
<td>(3)</td>
<td>260 or SOC 231</td>
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<tr>
<td></td>
<td>Theory and method; techniques of observation, description, interviewing, notetaking, and analyzing data; planning and completing a field study.</td>
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<td>389</td>
<td>Cooperative Education in Anthropology.</td>
<td>(1 or 3,R15)</td>
<td>See page 122.</td>
</tr>
<tr>
<td>414</td>
<td>(SOC 414) Minority Groups.</td>
<td>(3)</td>
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<td>417</td>
<td>Southern Appalachian Culture.</td>
<td>(3)</td>
<td>260 or SOC 231</td>
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<tr>
<td></td>
<td>Stability and change in the sociocultural institutions of the region.</td>
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<tr>
<td>419</td>
<td>Comparative Family.</td>
<td>(3)</td>
<td>260 or SOC 231</td>
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<tr>
<td></td>
<td>The family as a social institution in various cultures.</td>
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<tr>
<td>431</td>
<td>North American Prehistory.</td>
<td>(3)</td>
<td>250.</td>
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<td>Cultural history of the peoples of prehistoric North America, including Mexico.</td>
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<td>440</td>
<td>Archeological Field Techniques.</td>
<td>(3)</td>
<td>Permission of instructor.</td>
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<td>Basics of field work; surveying, photography, excavation, recording, and preservation techniques.</td>
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<td>441</td>
<td>Archeological Problems and Analyses.</td>
<td>(3)</td>
<td>Permission of instructor.</td>
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<td></td>
<td>Experience in collecting and analyzing relevant archeological data.</td>
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<td>461</td>
<td>Indians of North America.</td>
<td>(3)</td>
<td>260.</td>
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<td></td>
<td>Traditional and changing life styles of native North Americans; environmental adaptations, social organizations, religions, and arts.</td>
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<td>464</td>
<td>Cultures of South Asia.</td>
<td>(3)</td>
<td>260.</td>
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<td></td>
<td>The cultures of India, Pakistan, Ceylon, Nepal, Afghanistan, and other South Asian countries.</td>
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<tr>
<td>466</td>
<td>Folklore.</td>
<td>(3)</td>
<td>Permission of instructor.</td>
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<td>Major forms, theories, and functions of lore among the world's cultures; collection, classification, and analysis of folklore.</td>
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<td>473</td>
<td>Contemporary Cherokee Culture and Society.</td>
<td>(3)</td>
<td>260.</td>
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<td></td>
<td>Present-day Cherokee culture and society; effects of tourism and the reservation system on life styles.</td>
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<td>477</td>
<td>Cultures of Subsaharan Africa.</td>
<td>(3)</td>
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<td></td>
<td>Cultural diversity and development in Subsaharan Africa from earliest times to the present.</td>
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<td>481</td>
<td>Independent Study in Anthropology.</td>
<td>(1-2,R6)</td>
<td>Permission of instructor and adviser.</td>
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<td>PREQ: Written application, approval of instructor and adviser.</td>
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<td>483</td>
<td>Anthropology Internship.</td>
<td>(3,3,3)</td>
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<td>Application of academic training in an approved agency under faculty supervision.</td>
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<td>485</td>
<td>Credit toward anthropology major or minor limited to 3 hours. S/U grading. 9 hours per week per course.</td>
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<td>493</td>
<td>Topics in Anthropology.</td>
<td>(3,R6)</td>
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<td>PREQ: Permission of instructor.</td>
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**Graduate Courses**

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<tbody>
<tr>
<td>514</td>
<td>(SOC 514) Minority Groups.</td>
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<tr>
<td>517</td>
<td>Southern Appalachian Culture.</td>
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<td>519</td>
<td>Comparative Family.</td>
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<td>565</td>
<td>Cultures of South Asia.</td>
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<tr>
<td>566</td>
<td>Folklore.</td>
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<tr>
<td>573</td>
<td>Contemporary Cherokee Culture and Society.</td>
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</tbody>
</table>
Art (ART)

102 (302) African, Asian, and Western Art.(3)
   Style, symbolic expression, and attitudes toward mankind’s relationship to nature in three distinct world cultures. (P4)

103 Art in Society.(3)
   Examination of recurring visual forms in historic context as expressions of cultural values and aspirations. (P5)

104 (308) Art Appreciation.(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.(l)
   Experiments with a variety of drawing materials to familiarize the nonmajor with various approaches. 2 Lab. (F5)

121 Beginning Painting.(l)
   Development of a composition, sketching the subject, mixing colors, and applying paint; for nonmajors. 2 Lab. (F5)

123 Off-Loom Fiber Works.(l)
   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)

126 Image-Making for Non-Artists.(1)
   Experimentation with photograms, photo-montage, collage, transfer rubbings, and other techniques for making images. 2 Lab. (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. Lab fee charged. 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. Lab fee charged. 6 Studio.

136 Art History Survey I, II.(3,3)
137 The visual arts from the prehistoric period through the Renaissance in 136; from the 17th through the 20th centuries in 137.

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. Lab fee charged. 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. Lab fee charged. 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. Lab fee charged. 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. Lab fee charged. 6 Studio.

251 Introductory Ceramics.(3)
Basic principles of ceramics; technical, critical, and historical. Lab fee charged. 6 Studio.

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. Lab fee charged. PREQ: 132. 6 Studio.

271 Lettering.(3)
Principles of lettering and letter construction; lettering as used and reproduced today; typography in relation to lettering and design. 6 Studio.

273 Airbrush.(3)
Comprehensive introduction to airbrush rendering; techniques directly applicable to illustration. PREQ: 131, 132. 6 Studio.

301 Greek and Roman Art.(3)
Greek, Etruscan, and Roman art and architecture; Aegean art and the problems of classical archeology.

303 Medieval Art.(3)
Evolution of art from early Christian through Romanesque to Gothic traced in religious context against the changing social background of the Middle Ages.

306 Renaissance Art.(3)
The Renaissance in Italy and northern Europe; major trends and personalities in art and architecture.

309 Seventeenth and Eighteenth Century Art.(3)
Major baroque and rococo artists, architects, landscape and urban designers in Europe.

312 Nineteenth Century Art.(3)
Major styles of art and architecture in Europe.

314 American Painting.(3)
Major artists and trends; the earliest colonial limners to the abstract expressionists in the mid-20th century. PREQ: 136.

316 Development of Modern Painting.(3)
Survey of painting, primarily European, from contributions of the late 19th century post-impressionist generation to the mid-20th century. PREQ: 137.

317 Development of Modern Sculpture.(3)
Academic sculpture in the 19th century; modernist innovations from Rodin to David Smith. PREQ: 137.
318 Development of Modern Architecture.(3)
Late 19th- and 20th-century architecture; materials, styles, and theories of architects and engineers in a changing world. PREQ: 137.

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: 136, 137.

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. Lab fee charged. 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. Lab fee charged. PREQ: 233. 6 Studio.

334 Intermediate Printmaking.(3,R6)
Exploration of various printmaking techniques with focus on personal interpretation and perception. Lab fee charged. 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. Lab fee charged. 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. Lab fee charged. 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. Lab fee charged. PREQ: 251. 6 Studio.

352 Jewelry and Metalsmithing.(3,R6)
Basic principles of jewelry and metalsmithing; technical, critical, and historical. Lab fee charged. 6 Studio.

354 Introductory Glass I, II.(3,3)
355 Basic techniques of glassblowing; technical, critical, and historical. Lab fee charged. PREQ: Permission of instructor for 354; 354 for 355. 6 Studio.

364 Intermediate Glass.(3,R6)
Materials, techniques, and aesthetic issues of contemporary glass blowing and forming with emphasis on personal interpretation and perception. PREQ: 355. 6 Studio.

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. Lab fee charged. 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. Lab fee charged. 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)

380 Illustration for Interior Design.(3)
Introduction to wet and dry color media and basic graphics techniques for architectural interiors. PREQ: 131. 6 Lab.

389 Cooperative Education in Art.(I or 3,R15) See page 122.

416 Contemporary Art History.(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. Lab fee charged. 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. Lab fee charged. PREQ: 330. 6 Studio.

443 Advanced Sculpture.(3,R6)
Emphasis on exploration of sculptural materials and critical thinking within a contemporary context. Lab fee charged. PREQ: 342. 6 Studio.

451 Advanced Ceramics.(3,R6)
Emphasis on personal direction; critiques of current work; reading in history and criticism. Lab fee charged. PREQ: 351. 6 Studio.

457 Textile Dye Techniques.(3)
Batik, plangi, ikat, and other techniques of applying dye designs. PREQ: Permission of instructor. 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.

461 Art Education.(3)
Studio in two- and three-dimensional media suited to needs of elementary and secondary students; understanding child art. Lab fee charged. 6 Studio.

462 Art Education Philosophy.(3)
The rationale for the visual arts in education; changes and trends in art education. PREQ: 461.
463 Art Education Materials and Methods.(3)  
Materials, equipment, curricula, and techniques for teaching art at all levels. PREQ: 461.

464 Advanced Glass.(3,R6)  
Emphasis on personal direction interrelated with regular critiques and the study of contemporary glass. PREQ: 364. 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. Lab fee charged. PRÉQ: 372 or permission of instructor. 6 Studio.

473 Intermediate Illustration.(3,R6)  
Emphasis on personal interpretation and advanced technical solution 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.

476 Advanced Photography.(3,R6)  
Emphasis on personal interpretation and advanced technical solutions to guided projects. Lab fee charged. PREQ: 472 or permission of instructor. 6 Studio.

480 Experimental Studio.(3,R6)  
Theoretical and conceptual issues and modes of making art relevant to the contemporary or post-studio artist. PREQ: Permission of instructor. 6 Studio.

482 Independent Study in Art History.(1-6,R6)  
PREQ: Submission of proposal; permission of instructor.

483 Art Internship.(3,3,3)  
Directed work experience in a professional design studio.

484 Directed work experience in a professional design studio.  
PREQ: Permission of instructor. 9 hours per week per course.

486 Exhibition Practicum.(3)  
Organizational, administrative, and operational structures of an art gallery and museum including the introduction of planning, curating, and installing professional art exhibitions.

493 Topics in Art.(1-4,R7)  
Lab fee charged. PREQ: Permission of instructor.

494 Art Honors Studio.(3,R6)  
Honors studio for seniors culminating in exhibition of a body of work demonstrating commitment to quality and productivity. Lab fee charged. PREQ: Permission of instructor. 6 Studio.

495 Art History Seminar.(3,R6)  
Detailed study of a limited topic in art history. PREQ: Permission of instructor, junior standing, and 9 hours in art history.
Graduate Courses
531 Drawing Problems (3, R6)
532 Design Problems (3, R6)
533 Painting Problems (3, R6)
534 Printmaking Problems (3, R6)
544 Sculpture Problems (3, R6)
551 Ceramics Problems (3, R6)
553 Weaving Problems (3, R6)
554 Glass Problems (3, R6)
564 Art Education Problems (3, R6)
582 Independent Study in Art History (1-6)
586 Exhibition Practicum (3)
593 Topics in Art (1-4, R7)
596 Art History Seminar (3)
597 Seminar in Contemporary Art (3)
631 Graduate Drawing (3, R9)
632 Graduate Design (3, R9)
633 Graduate Painting (3, R9)
634 Graduate Printmaking (3, R9)
644 Graduate Sculpture (3, R9)
651 Graduate Ceramics (3, R9)
652 Graduate Jewelry (3, R9)
653 Graduate Weaving (3, R9)
654 Graduate Glass (3, R9)
666 Photography Problems (3, R6)
667 Graduate Photography (3, R9)
681 Graduate Problems in Art (3)
682 Independent Study in Art History (1-6)
696 Graduate Seminar in Art History (3, R6)
699 Thesis (3)

Arts and Sciences Interdisciplinary Courses (ASI)
100 Introduction to American Culture (3)
Survey of contemporary American culture; basic history, geography, cultural characteristics, and customs. PREQ: International student or permission of instructor. COREQ: ENGL 130 or permission of instructor.

108 (308) The Ancient and Medieval Experience (3)
Exploration of relationships of ideas, art, and philosophy in the historical context of antiquity, the Greco-Roman world, and the middle period. PREQ: ENGL 102. (P3a)

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.

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)
Classification, relationships, structure, and function of major animal groups; lab dissections; experiments in animal physiology. 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 Modern Environmental Problems.(3)
The ecological limits of human population growth, food production, industrial development, and attendant problems. PREQ: 101 or permission of instructor.

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 photomacrography, 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Lecture</th>
<th>Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>291</td>
<td>Human Anatomy and Physiology</td>
<td>4, 4</td>
<td>The skeletal, muscular, digestive, circulatory, respiratory, excretory, integrative, and reproductive systems.</td>
<td>3 Lecture, 3 Lab.</td>
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<tr>
<td>292</td>
<td>Physiology</td>
<td>3</td>
<td>Metabolism, photosynthesis, transport, respiration, regulation, and defense mechanisms in plants. Nervous, endocrine, circulatory; skeletal, muscular, respiratory, digestive, and immune systems in animals with particular focus on structural and functional relationships.</td>
<td>PREQ: 130, 131, or permission of instructor.</td>
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<tr>
<td>311</td>
<td>Physiology</td>
<td>3</td>
<td>Metabolism, photosynthesis, transport, respiration, regulation, and defense mechanisms in plants. Nervous, endocrine, circulatory; skeletal, muscular, respiratory, digestive, and immune systems in animals with particular focus on structural and functional relationships.</td>
<td>PREQ: 130, 131, or permission of instructor.</td>
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<tr>
<td>313</td>
<td>Microbiology in Health and Nutrition</td>
<td>3</td>
<td>Morphological, cultural, biochemical, and staining characteristics of microorganisms; emphasis on those that infect man and occur in water, food, and dairy products.</td>
<td>PREQ: Permission of instructor.</td>
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<tr>
<td>333</td>
<td>Cell and Molecular Biology</td>
<td>3</td>
<td>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.</td>
<td>PREQ: 130, 131, or permission of instructor.</td>
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<tr>
<td>361</td>
<td>(CHEM 361) Principles of Biochemistry</td>
<td>3</td>
<td>Survey of microorganisms emphasizing morphology, physiology, immunology, and ecology; microorganisms and disease; environmental and applied microbiology. Not open to students with credit in 313.</td>
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<tr>
<td>373</td>
<td>Invertebrate Zoology</td>
<td>4</td>
<td>Morphology, physiology, behavior, ecology, and evolution of invertebrates.</td>
<td>PREQ: 131.</td>
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<tr>
<td>374</td>
<td>Vertebrate Zoology</td>
<td>4</td>
<td>Morphology, physiology, behavior, ecology, and evolution of vertebrates.</td>
<td>PREQ: 232, 242, and 311; or permission of instructor.</td>
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<tr>
<td>389</td>
<td>Cooperative Education in Biology</td>
<td>1 or 3</td>
<td>See page 122.</td>
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<tr>
<td>413</td>
<td>Principles of General Microbiology</td>
<td>2</td>
<td>Survey of microorganisms emphasizing morphology, physiology, immunology, and ecology; microorganisms and disease; environmental and applied microbiology. Not open to students with credit in 313.</td>
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<tr>
<td>414</td>
<td>Methods of General Microbiology</td>
<td>2</td>
<td>Microscopy; morphological, cultural, physiological, and serological characteristics of microorganisms; microbiology of food, milk, water, and soil.</td>
<td>COREQ: 413.</td>
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<tr>
<td>415</td>
<td>Plant Physiology</td>
<td>4</td>
<td>The growth, development, function, and defense mechanisms of flowering plants.</td>
<td>PREQ: 311 or permission of instructor.</td>
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<tr>
<td>417</td>
<td>Biochemistry</td>
<td>3</td>
<td>The metabolism of carbohydrates, lipids, nucleic acids, and proteins in plant and animal systems. 2 Lecture, 6 Lab.</td>
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<tr>
<td>419</td>
<td>Cell Biology</td>
<td>4</td>
<td>Structure and function; techniques for the study of cells.</td>
<td>PREQ: 311.</td>
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<tr>
<td>421</td>
<td>Comparative Physiology</td>
<td>4</td>
<td>Vertebrate and invertebrate systems; nutrition, metabolism, respiration, circulation, excretion, reproduction, humoral and nervous integration.</td>
<td>PREQ: 232, 242, 311; or permission of instructor.</td>
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<tr>
<td>435</td>
<td>Aquatic Ecology</td>
<td>4</td>
<td>Biological, physical, and chemical components and processes in lakes and streams; field studies of local lakes and their biota.</td>
<td>PREQ: 232.</td>
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</tbody>
</table>
443 Evolutionary Processes.(3)
The 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)
Identification, characterization, and classification of organisms; use of evidence from many biologic disciplines; plant or animal field studies. PREQ: 232, 242, 311. 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.

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)
Morphology, physiology, life histories, behavior, ecology, and systematics of arthropods; field emphasis on insects or arachnids. PREQ: 131. 2 Lecture, 6 Lab.

471 Animal Behavior.(4)
Mechanisms, development, functional significance, and behavioral evolution from viewpoint of ethology, neurophysiology, and experimental psychology. 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.

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. Preliminary oral reports required of all students seeking B.S. or B.S.Ed. degrees in Biology.
Senior Thesis II.(1)
Senior thesis and oral presentation following completion of directed undergraduate research. Required of all students seeking B.S. degree in Biology. PREQ: 498.

Graduate Courses
513 Principles of General Microbiology.(2) 571 Animal Behavior.(4)
514 Methods of General Microbiology.(2) 575 Animal Development.(4)
515 Plant Physiology.(4) 578 Histology.(4)
517 Biochemistry.(3) 593 Advanced Studies in Biology.(1-6,R12)
519 Cell Biology.(4) 611 Biomembranes.(3)
521 Comparative Physiology.(4) 612 Biology of Secondary Compounds.(3)
534 Terrestrial Ecology.(4) 613 Molecular Biology.(3)
535 Aquatic Ecology.(4) 614 Biology of Secondary Compounds Laboratory.(2)
543 Evolutionary Processes.(3) 622 Virology.(3)
551 Biology of Fungi.(4) 632 Biogeography.(3)
552 Plant Anatomy.(4) 642 Developmental Genetics.(3)
553 Principles of Systematics.(4) 672 Ichthyology.(4)
555 Vascular Plants.(4) 678 Colloquium in Invertebrate Biology.(3)
557 Biology of Algae.(4) 693 Topics in Biology.(1-6,R12)
567 Biostatistics.(3) 694
570 Biology of Arthropods.(4) 699 Thesis Research.(3,R6)

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
500 Accounting for Management Analysis.(3) 515 Management, Marketing, and Legal Issues.(2,R6)
505 Economics and Public Policy.(2-3,R5) 589 Cooperative Education Experience.(3)
510 Information Systems and Statistical Methods.(2,R4)

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, consideration of 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) (formerly 420)
Business organizations, agency law, government regulations, legal liability, bankruptcy. PREQ: 331.

389 Cooperative Education in Business Law.(1 or 3, R15) See page 122.

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)
Supervised experience in applications of previously studied theory. S/U grading. 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)
Chemistry (CHEM)

101 Chemistry in Society.(3-4)  
Introduction to chemistry emphasizing the impact of chemistry and scientific reasoning on society. Lab fee charged. 3 Lecture, 2 Lab (optional).(P2)

132 Introductory Chemistry.(4)  
Fundamentals of chemistry for majors in fields requiring no more than one year of chemistry. Lab fee charged. 3 Lecture, 3 Lab.

133 Survey of Organic and Biochemistry.(4)  
Survey of the major functional classes of compounds in organic and biochemistry, including structure and nomenclature, chemical and physical properties, and common uses. Lab fee charged. PREQ: 132 or 135. 3 Lecture, 3 Lab.

135 General Chemistry.(4,4)  
136 Basic chemistry for science majors; atomic structure, chemical bonding, stoichiometry, chemical equilibrium; lab introduction to experimentation. Lab fee charged. PREQ: MATH 100 or pass Algebra Skills Test. 3 Lecture, 3 Lab.

183 Special Projects.(3,3)  
184 Intensive short courses or extended projects for special students. PREQ: One semester of high school chemistry. 9 Lab.

241 Organic Chemistry I.(3)  
Aliphatic and aromatic compounds of carbon; relationships between structure and reactivity. PREQ: 136.

242 Organic Chemistry II.(3)  
Continuation of 241; introductory theory of instrumentation and applications of spectral methods in structure determination. PREQ: 241.

271 Chemical Techniques.(2)  
Techniques used in the isolation, purification, and identification of the products of single-step chemical syntheses. Lab fee charged. PREQ or COREQ: 241. 6 Lab.

311 Industrial Chemistry.(3)  
Processes, operations, marketing, and management in chemical manufacturing. PREQ: 242, 370.

321 Inorganic Chemistry.(3)  
Physical and chemical properties of the elements and their compounds; emphasis on chemical reactions. PREQ: 136.

330 Aquatic Chemistry.(3)  
Processes in the distribution, consumption, and circulation of water. PREQ: 136, and permission of instructor. 2 Lecture, 3 Lab.

352 Physical Chemistry I. (3)  
Introduction to chemical thermodynamics and kinetics. PREQ: 242; MATH 140 or 153. (Formerly 452)

361 (BIOL 361) Principles of Biochemistry.(3)  
Structures and properties of biomolecules; central principles of metabolism. PREQ: 242.

370 Analytical Spectroscopy and Chromatography.(3)  
Introduction to extraction; TLC, CC, GC, HPLC, AES, AAS, UV, visible, and IR methods. Lab fee charged. PREQ: 271. 1 Lecture, 6 Lab.

371 Chemical Dynamics.(2)  
Measurements and data treatment of the dynamics (e.g., kinetics, thermodynamics) of chemical systems. Lab fee charged. PREQ: 370. 6 Lab.
372 Chemical Syntheses.(2)
Multistep synthesis of inorganic and organic compounds. Lab fee charged. 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 page 122.

421 Advanced Inorganic Chemistry.(3)
Survey of structure and bonding in inorganic compounds; acid-base theory; coordination complexes of transition metals; and fundamentals of crystal-field and ligand-field theory. PREQ: 321 and 352. COREQ: 453.

432 Instrumental Analysis.(3) (formerly 331)
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.
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 Dynamics of Marriage and Family Living.(3)
Interpersonal relations; dynamics of love, courtship, marriage, and parenthood.

361 The Child Development Center Environment.(3)
The physical, emotional, and social environment suitable for young children; room arrangement, scheduling, space utilization, and teacher-child interaction.

362 Methods for Child Development Centers.(3)
Curricular materials in programs for younger children; techniques for implementation and daily planning. PREQ: 361, 363. 2 Lecture, 3 Lab.

363 Child Development.(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.

389 Cooperative Education in Child Development. (1 or 3,R15) See page 122.

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 Parent Involvement.(3)
Methods for involving parents in their child's development at home and in school; includes current parenting programs and historical aspects of parent involvement. PREQ: 363. COREQ: 361.

465 Day Care Management.(3)
Organization and administration of programs in child development and day care centers.

466 Child Development Methods II.(3)
Methods, materials, and experience in the Child Development Center. PREQ: 362, 463. COREQ: 464. 1 Lecture, 6 Lab.

467 Parent Education.(3)
Effective child-rearing skills; review of current theories, research, and model parenting programs.
**Families: Organization and Function.** (3)

Family organization and function; the family life cycle and areas of adjustment. **PREQ:** 261 or permission of instructor.

**Family Gerontology.** (3)

Study of older family members: their relationships, development, life adjustments and sources of assistance. **PREQ:** 364 or permission of instructor.

**Independent Study.** (1-3, R6). **PREQ:** Permission of instructor.

**Internship.** (3,3,3)

Integration of theory and practice in a setting appropriate to the student's career field. **S/U grading.** 9 hours per week per course. **PREQ:** Permission of instructor.

**Seminar in Child Development.** (1)

Consideration of current research; emphasis on personal and career development. **PREQ:** 261, 361, 363.

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**Graduate Courses**

- 565 Day Care Management. (3)
- 567 Parent Education. (3)
- 568 Families: Organization and Function. (3)
- 569 Family Gerontology. (3)
- 566 Theories of Child Development. (3)
- 661 Contemporary Family Systems. (3)
- 693 Topics in Child and Family Studies. (1-3, R6)

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**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.

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**Clinical Laboratory Sciences (HSMT) (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 Med Tech 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 MT. 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 Med Tech 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 MT. 1 Lecture, 3 Lab.

- 306 Immunohematology. (4)
  - The study of blood component therapy. **PREQ:** 303, 304, Med Tech major. 2 Lecture, 4 Lab.
307 Medical Mycology.(2)
Superficial and systemic mycological diseases; methods of isolation and identification.
PREQ: Junior standing in MT. 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 page 122.

406 Laboratory Management.(2)
Organization and administration of the clinical laboratory. PREQ: Med Tech 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)

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.

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.

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, 141, 242. 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: MATH 101 or equivalent, ACCT 161 or 251.

347 Fashion Promotion. (3)  
Methods of promoting fashion merchandise and their interpresentation of a fashion story. PREQ: 246 or permission of instructor.

389 Cooperative Education. (1 or 3, R15). See page 122.

441 Textile and Apparel Economics. (3)  
Economic and social aspects of textile and apparel production, distribution, and use. PREQ: 140, 242; ECON 130.

443 Cultural Aspects of Clothing. (3)  
Cultural factors influencing clothing habits of individuals and groups as related to their environment.

445 Apparel and Home Furnishings Product Analysis. (3)  
Value analysis of the compositions of fashion and home-furnishing products. PREQ: 242, 246 or permission of instructor.

446 Principles and Techniques of Fashion Retailing. (3)  
Case study approach to the operation and management of fashion business enterprises. PREQ: 346, 347 and MKT 302, 304; or permission of instructor.

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.

Graduate Courses
545 Current Topics in Clothing and Textiles. (3)  
546 Principles and Techniques of Fashion Retailing. (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.

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)

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.

Graduate Courses
572 Aural Rehabilitation.(3)
574 Voice Disorders of Speech.(3)
576 Language Disorders in Children.(3)
578 Fluency Disorders.(3)
594 Topics in Communication Disorders.(1-3,R6)
595 Seminar in School Practice.(3)
600 Clinical Audiology.(3)
655 Pediatric Audiology.(3)
660 Psychology of the Hearing Impaired.(3)
661 Private Practice: Design and Operation.(3)
672 Language Disorders in Adults.(3)
673 Neurogenic Speech Disorders.(3)
674 Diagnostics.(3)

675 Management of Communication Disorders.(3)
676 Management of Orofacial Anomalies.(3)
678 Augmentative Communication Systems.(3)
679 Language Assessment and Intervention.(3)
680 Communication Problems of the Aging.(3)
682 Research in Communication Disorders.(3)
683 Internship in Communication Disorders.(1-3,R9)
695 Seminar in Articulation.(3)
696 Seminar in Language.(3)
697 Seminar in Fluency.(3)
698 Seminar in Voice.(3)
699 Thesis.(3,R6)

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; com-
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, data base 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.

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)
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.
### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>651</td>
<td>Decision Support Systems</td>
<td>3</td>
<td></td>
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<tr>
<td>661</td>
<td>Systems Design</td>
<td>3</td>
<td></td>
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<tr>
<td>662</td>
<td>Database Management</td>
<td>3</td>
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<tr>
<td>682</td>
<td>Research Project in Computer Information Systems</td>
<td>3</td>
<td>(R6)</td>
</tr>
<tr>
<td>693</td>
<td>Topics in Information Systems</td>
<td>1-3</td>
<td>(R6)</td>
</tr>
</tbody>
</table>

### 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 struc-
tures 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 page 122.

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 differ-
ential 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, combinatories, sorting and searching, polynomials, string match-
ing, 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, soft-
ware, 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. PREQ: 362

455 Computer Design.(3)
Arithmetic unit, control unit, memory hierarchy, pipelining, load balancing, parallel
computing using various topologies. PREQ: 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. PREQ: 351.

462 Systems Programming.(3)
Computer organization and advanced programming; macro-instruction language; link-
ing high-level and assembly language; assemblers, linkers, and loaders. PREQ: 250.

463 Software Engineering.(3)
Software development methodologies in very large programming tasks; object-oriented
design; information hiding; concurrent processing. PREQ: 250, 362.

464 Microcomputer Development.(3)
Software and hardware development and interfacing for dedicated microcomputer
applications. PREQ: 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. PREQ: 303, 351.

470 Operating Systems.(3)
Major components, memory management, processors, devices, data, characteristics and sharing of devices, files organization, spooling. PREQ: 250, 351.

480 Artificial Intelligence.(3)
Machine intelligence; problem reduction, state space search, game trees, expert systems; resolution principle; introduction to LISP. PREQ: 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 techniques; participation in role playing and group processes.

450 Career Development and Guidance.(3)
History of vocational guidance; theories of vocational choice; development of vocational maturity; interests, aptitudes, and other factors in vocational development.

Graduate Courses
600 Individual and Group Helping Skills.(3)
605 The Helping Relationship.(3)
610 Family Counseling.(3)
615 Multicultural Counseling.(3)
617 Substance Abuse Counseling.(3)
620 Counseling Children.(3)
623 Introduction to Community Counseling.(3)
625 Counseling: Developmental Perspectives.(3)
630 Theories of Individual Counseling.(3)
633 Crisis Intervention Counseling.(3)
635 Group Methods in Counseling.(3)
640 Measurement and Appraisal in Counseling.(3)
645 Consultation.(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 Counseling.(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 professional 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 page 122. 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. S/U grading. Credit not given for both 389 and 483. PREQ: Junior standing; permission of department head. 3 hours per credit hour.

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)
593 Topics in Criminal Justice.(1-3,R9)
620 Law Enforcement Administration.(3)
930 Social Research.(3)
940 Social Policy Analysis.(3)
950 Theory in Criminal Justice.(3)
960 Criminal Justice Systems.(3)
970 Criminal Justice Administration.(3)
980 Criminal Justice Theory.(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

500 Social Studies in the Secondary School.(3)
503 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.(1,1)
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 page 122.

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.

410 Small Business Consulting Clinic.(3)  
Experience in identifying, analyzing, and solving problems of setting up and operating small businesses. PREQ: FIN 409.

480 Independent Research.(3)  
PREQ: Permission of department head.

493 Topics in Economics.(1-3,R6)  
PREQ: Permission of department head.

Graduate Courses  
507 Managerial Economics.(3)  
508 Business and Managerial Forecasting.(3)  
509 International Economics.(3)  
682 Research Project in Economics.(3,R6)  
693 Topics in Economics.(3,R6)

Education and Psychology (EDPY)  
493 Topics in Education and Psychology.(1-3,R6)  
692 Topics in Education and Psychology.(2,R6)  
693 Topics in Education and Psychology.(3,R6)  
793 Topics in Education and Psychology.(3,R12)
### Educational Administration (EDAD)

**Graduate Courses**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>600</td>
<td>Theory and Foundations of School Administration (3)</td>
</tr>
<tr>
<td>610</td>
<td>The Principalship (3)</td>
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<tr>
<td>630</td>
<td>School Finance and Business Management (3)</td>
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<td>640</td>
<td>School Plant Planning and Management (2)</td>
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<td>School Personnel Administration (3)</td>
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<td>660</td>
<td>School-Community Relations (2)</td>
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<td>680</td>
<td>Problems in School Administration (1, R3)</td>
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<td>681</td>
<td>Independent Study (1)</td>
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<td>684</td>
<td>Elementary Principal Internship (1)</td>
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<td>693</td>
<td>Topics in Administration (1, R3)</td>
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<td>695</td>
<td>Seminar in the Principalship (2)</td>
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<td>700</td>
<td>The Superintendency (3)</td>
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<td>710</td>
<td>Administration of Two-Year Colleges (2)</td>
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<tr>
<td>720</td>
<td>The Politics of Educational Decision-Making (3)</td>
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<td>783</td>
<td>Internship in School Administration (2)</td>
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<tr>
<td>795</td>
<td>Seminar in School Administration (2)</td>
</tr>
</tbody>
</table>

### Educational Supervision (EDSU)

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>605</td>
<td>Principles of Supervision (3)</td>
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<tr>
<td>615</td>
<td>Techniques of Supervision (3)</td>
</tr>
<tr>
<td>620</td>
<td>School-Based Instructional Leadership (3)</td>
</tr>
<tr>
<td>635</td>
<td>Supervision of the Novice Teacher (3)</td>
</tr>
<tr>
<td>680</td>
<td>Problems in Supervision (1, R3)</td>
</tr>
<tr>
<td>685</td>
<td>Internship in Supervision (2)</td>
</tr>
<tr>
<td>693</td>
<td>Topics in Supervision (1, R3)</td>
</tr>
<tr>
<td>705</td>
<td>Leadership for Educational Programs (3)</td>
</tr>
<tr>
<td>785</td>
<td>Internship in Supervision (2)</td>
</tr>
<tr>
<td>795</td>
<td>Seminar in Supervision (2)</td>
</tr>
</tbody>
</table>

### Electronics Engineering Technology (EET)

**201 Circuit Analysis I (4)**

Introduction to fundamental electrical and electromagnetic theory with laboratory confirmation of mathematical solutions involving DC circuits. 
PREQ: MATH 145, 146. 
COREQ: MATH 153. 3 Lecture, 2 Lab.

**202 Circuit Analysis II (4)**

Continuation of 201 with AC circuits. 
PREQ: 201. COREQ: MATH 255. 3 Lecture, 2 Lab.

**300 Electrical Motors and Controls (3)**

A study of AC and DC machines and the circuits that control them. 
PREQ: 202 or IET 370 or permission of instructor.

**311 Solid State Devices (4)**

Theory of discrete semiconductor devices and their applications. 
PREQ: 201, 202. 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.

**321 Digital Integrated Circuits I (4)**

Study of combinational and sequential digital circuits using integrated circuit techniques. 
PREQ: 201. 3 Lecture, 2 Lab.

**322 Digital Integrated Circuits II (4)**

Continuation of 321 including the study of digital system organization and design. 
PREQ: 321. 3 Lecture, 2 Lab.

**341 Advanced Circuit Analysis (3)**

Study of linear systems; introduction to digital signal processing. 
PREQ: 202, MATH 153. COREQ: MATH 255.

**431 Microprocessor Fundamentals (4)**

Study of microprocessor fundamentals including integrated circuit architecture, instruction sets and machine assembly language programming. 
PREQ: 321. 3 Lecture, 2 Lab.

**432 Microprocessor Applications (4)**

Continuation of 431 including the study of interfacing of microprocessor and integrated circuits into complex systems. 
PREQ: 431 or equivalent. 3 Lecture, 2 Lab.
451 Control Systems. (3)
Fundamental principles of control theory and instrumentation with particular applications in manufacturing processes. PREQ: 312, 321.

462 Communication Systems. (3)
A study of information transmission and modulation systems. Includes both analog and digital techniques used in radio and data communications. PREQ: 312, 321.

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)

230 Introduction to Teaching. (2)
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.

303 Literature for Children and Youth. (3)
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.

310 The Middle School Child and Curriculum. (3)
Programs, methods, and materials for students in the middle grades. PREQ: Admission to professional education sequence.

312 Elementary School/Methods and Curriculum. (3)
Methods, materials, and curriculum for children from kindergarten through grade 6. PREQ: Admission to the professional education sequence.

315 Elementary/Middle Grades Communication Skills. (3)
Teaching methods, materials, and curriculum development in the language arts, grades K-9. PREQ: Admission to the professional education sequence.

316 Elementary/Middle Grades Science. (3)
Teaching methods and curricular development in science, grades K-9: materials and teaching strategies. PREQ: Admission to the professional education sequence.

317 Elementary/Middle Grades Social Studies. (3)
Methods, materials, and strategies for teaching social studies in Grades K-9. PREQ: Admission to the professional education sequence.

318 Elementary/Middle Grades Mathematics. (3)
The development of mathematical concepts; programs, methods, and materials for Grades K-9. PREQ: MATH 231 and admission to the professional education sequence.

390 Practicum I, II. (1-2)
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.

465 Teaching the Child in Crisis. (3)
Exploration of crisis situations to improve teacher competency; methods for dealing with the child in crisis at various developmental levels.
466 **Computers in Education.** (3)
The use of computers in school settings; emphasis on instructional applications, issues, and trends.

467 **Adolescent Literature.** (3)
The reading development and reading interests of adolescents; criteria for evaluation; instructional strategies; study of a wide range of books.

476 **Discipline and Classroom Control.** (2)
Methods, techniques, and theories of classroom control; emphasis on Glasser, Assertive Discipline, T.E.T., T.A., and behavior modification. **COREQ:** 490,495.

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.

490 **Supervised Student Teaching.** (9)
A full-time internship under university supervision. **COREQ:** 495.

495 **Seminar for Student Teachers.** (3)
Theory related to practice during student teaching. **COREQ:** 490.

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**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Hours</th>
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<tbody>
<tr>
<td>565</td>
<td>Teaching the Child in Crisis</td>
<td>(3)</td>
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<td>566</td>
<td>Computers in Education</td>
<td>(3)</td>
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<tr>
<td>567</td>
<td>Adolescent Literature</td>
<td>(3)</td>
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<tr>
<td>575</td>
<td>Discipline and Classroom Management</td>
<td>(3)</td>
</tr>
<tr>
<td>580</td>
<td>Independent Study</td>
<td>(3)</td>
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<tr>
<td>593</td>
<td>Topics in Elementary Education</td>
<td>(3)</td>
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<tr>
<td>601</td>
<td>Elementary School Curriculum</td>
<td>(3)</td>
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<td>602</td>
<td>Individualizing Instruction</td>
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<td>603</td>
<td>Elementary Science Curriculum</td>
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<td>604</td>
<td>Elementary Social Studies Curriculum</td>
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<td>605</td>
<td>Elementary Math Curriculum</td>
<td>(3)</td>
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<td>606</td>
<td>Elementary Language Arts Curriculum</td>
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<tr>
<td>607</td>
<td>Mathematical Problem Solving in Elementary/Middle School</td>
<td>(3)</td>
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<td>608</td>
<td>Diagnosis and Remediation in Elementary/Middle School Math</td>
<td>(3)</td>
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<td>609</td>
<td>Logo for Teachers</td>
<td>(3)</td>
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<tr>
<td>614</td>
<td>Issues and Trends in Early Childhood Education</td>
<td>(3)</td>
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<td>616</td>
<td>Issues and Trends in Intermediate Education</td>
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<td>618</td>
<td>Curriculum for Middle Grades Education</td>
<td>(3)</td>
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<td>620</td>
<td>Philosophy and Mission of Middle Grades Education</td>
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<td>622</td>
<td>Teaching Learning Strategies for the Middle Grades</td>
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<td>630</td>
<td>Disciplinary Instruction</td>
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<td>635</td>
<td>Advanced Children's Literature</td>
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<td>644</td>
<td>Kindergarten Administration and Supervision</td>
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<td>Projects in Educational Computing</td>
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<td>Practicum in Elementary Education</td>
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<td>671</td>
<td>Instructional Leadership in Elementary Schools</td>
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<td>675</td>
<td>Workshop in Elementary Education</td>
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<td>Independent Study</td>
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<td>690</td>
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<td>Seminar in Elementary School Curriculum</td>
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<tr>
<td>714</td>
<td>Programs in Early Childhood Education</td>
<td>(3)</td>
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<td>716</td>
<td>Programs for the Intermediate Grades</td>
<td>(3)</td>
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<tr>
<td>718</td>
<td>Philosophy and Curriculum for Middle Schools</td>
<td>(3)</td>
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<tr>
<td>720</td>
<td>Advanced Practicum</td>
<td>(3,R6)</td>
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<td>722</td>
<td>Research in Elementary Education</td>
<td>(3)</td>
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<td>723</td>
<td>Advanced Research Seminar in Elementary Education I</td>
<td>(3)</td>
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<tr>
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<td>(3)</td>
</tr>
<tr>
<td>726</td>
<td>Advanced Research Seminar in Middle Grades Education II</td>
<td>(3)</td>
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</tbody>
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**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 also page 122.

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 prerequisite to all courses in English above the freshman level.

130 Intensive English I, II, III, IV.(3,3,3,3)
Speaking, listening, reading, writing, and grammar for non-native speakers; study of American culture. 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. PREQ: 102.

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. PREQ: 102.

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. (Formerly 270)

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: EDCI 231.

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 major.

361 Survey of American Literature I. (3)
A survey of American literature from the beginnings through the Romantics. PREQ: 102.

362 Survey of American Literature II. (3)
A survey of American literature from the early Realists to the present. PREQ: 102.

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 page 122.

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 instructional materials in content areas; aspects of American culture and language that affect language learning. PREQ: 415 or permission of instructor.

418 Literary Research and Bibliography. (3)
Methods of literary research and the history, production, and description of printed books. Juniors will not be allowed to enroll. PREQ: Permission of instructor. 3 Lecture.
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.

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 contemporaries.

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, Dickens.

455 The English Novel.(3)
Selected 18th-/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. PREQ: 102.

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. PREQ: 102.

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: 102 and 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,R-6)
Independent study/directed research in English. PREQ: 102, permission of instructor and department head.

483 Writing Internship.(3,3,3)
484 Practical experience in a writing-related setting. S/U grading. PREQ: 303. 9 hours per week per course.
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)
Individual writing emphasizing form, slant, and style; study of professional opportunities; portfolio and resume preparation. **PREQ:** 303 or permission of instructor.

498 **Senior Seminar in Literature.** (3)
Study of a writer, genre, theme, or period in literature. **PREQ:** Junior standing.

**Graduate Courses**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>501</td>
<td>Writing for the Professions. (3)</td>
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<tr>
<td>505</td>
<td>Advanced Creative Writing. (3)</td>
</tr>
<tr>
<td>512</td>
<td>Modern English Structure. (3)</td>
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<tr>
<td>514</td>
<td>Fundamentals of Teaching Composition. (3)</td>
</tr>
<tr>
<td>515</td>
<td>Linguistics. (3)</td>
</tr>
<tr>
<td>516</td>
<td>Teaching English as a Second Language. (3)</td>
</tr>
<tr>
<td>518</td>
<td>Literary Research and Bibliography. (3)</td>
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<tr>
<td>520</td>
<td>Chaucer and his Age. (3)</td>
</tr>
<tr>
<td>530</td>
<td>English Literature of the Renaissance. (3)</td>
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<tr>
<td>531</td>
<td>Shakespeare and his Age. (3)</td>
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<tr>
<td>540</td>
<td>Milton and his Age. (3)</td>
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<tr>
<td>541</td>
<td>The Age of Pope, Swift and Johnson. (3)</td>
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<td>550</td>
<td>Major British Writers. (3)</td>
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<td>551</td>
<td>Nineteenth Century British Writers. (3)</td>
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<td>555</td>
<td>The English Novel. (3)</td>
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<td>563</td>
<td>American Literature Since 1945. (3)</td>
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<td>570</td>
<td>Twentieth Century Commonwealth Literature. (3)</td>
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<tr>
<td>571</td>
<td>Modern Poetry. (3)</td>
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<td>572</td>
<td>Modern Fiction. (3)</td>
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<td>573</td>
<td>Modern Drama. (3)</td>
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<td>The American Novel. (3)</td>
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<td>577</td>
<td>Literature and Gender. (3)</td>
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<td>580</td>
<td>Studies in English. (1-3, R6)</td>
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<tr>
<td>589</td>
<td>Cooperative Education: Writing &amp; Editing. (3,R6)</td>
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<tr>
<td>593</td>
<td>Topics in Creative Writing. (1-3,R6)</td>
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<td>594</td>
<td>Special Topics in ESL. (3,R6)</td>
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<td>596</td>
<td>Topics in American Literature. (3,R6)</td>
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<td>597</td>
<td>Topics in Modern British/American Literature. (3,R6)</td>
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<tr>
<td>611</td>
<td>Writing Seminar for Teachers. (3,R6)</td>
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<tr>
<td>621</td>
<td>English Literature to 1500 Exclusive of Chaucer. (3)</td>
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<td>631</td>
<td>Shakespeare. (3)</td>
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<td>640</td>
<td>English Literature of the Enlightenment. (3)</td>
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<td>The Major Romantics. (3)</td>
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<tr>
<td>696</td>
<td>Topics in American Literature. (3,R6)</td>
</tr>
<tr>
<td>697</td>
<td>Topics in Modern British/American Literature. (3,R6)</td>
</tr>
<tr>
<td>698</td>
<td>Studies in Rhetoric. (1-3, R6)</td>
</tr>
<tr>
<td>699</td>
<td>Thesis. (3,R6)</td>
</tr>
</tbody>
</table>

**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)
A study of the monitoring, effects, and control of toxic materials in the environment. Mechanisms of action of toxic chemicals in humans and other organisms will be
explored, including food chain bioaccumulation and the use of bioassays to develop regulations. Biomedical aspects of toxins will be studied 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 also page 122.

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.

440 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.

450 Institutional Sanitation.(3)
Institutional sanitation systems; construction and design concepts, monitoring, and operation. PREQ: Environmental health major or permission of instructor.

455 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.

457 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.

459 Occupational Health.(3)
Health problems in business and industrial environments; occupational disease and accident prevention. PREQ: Environmental health major or permission of instructor.

460 Environmental Health Problems.(1)
Review of problems, their sources, and effects. PREQ: Permission of instructor. 2 Lecture.

470 Principles of Epidemiology.(3)
Principles and applications to investigation, control, and prevention of disease. PREQ: Environmental health major or permission of instructor.

475 Environmental Program Administration.(3)
Intensive study of regulatory program administration; focus on development, implementation, and evaluation of programs in the governmental sector.

480 Independent Study in Environmental Health.(1-2,R4)

483 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.

Graduate Courses
570 Principles of Epidemiology (3) 655 Hazardous Materials and Waste Management (3)
575 Environmental Program Administration (3) 675 Loss Control through Industrial Hygiene (3)

Finance (FIN)

300 Security Analysis.(3)
302 Real Estate.(3)
Financing, sources of funds, loan contracts, mortgage analysis; role of government; real estate law.

305 Financial Management.(3)
Financial analysis and planning; capital management and budgeting, acquisition of funds, dividend policy. PREQ: ACCT 161 or 252; ECON 231, 232.

325 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.

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 also page 122.

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)

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.
Graduate Courses
601 Financial Management.(3) 682 Research Project in Finance.(3,R6)
602 Investment Analysis and Portfolio Management.(3) 693 Topics in Finance.(3,R6)
603 Advanced Financial Analysis.(3)

Food Service Management (FSM)
130 Introduction to the Hospitality Industry.(2)
Survey of management specialties in the industry; emphasis on food systems administra-
tion; current trends and problems.

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 FMS. (1 or 3,R15) See page 122.

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 manage-
ment. 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.

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 gram-
mar; 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>133</td>
<td>French for Travelers.(2)</td>
<td>A practical guide to travel in French-speaking countries; basic conversational French, tourist information, and travel facts.</td>
</tr>
<tr>
<td>231</td>
<td>Intermediate French I, II.(3,3)</td>
<td>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.</td>
</tr>
<tr>
<td>232</td>
<td>Intermediate French I, II.(3,3)</td>
<td>Continuation of 110; increased emphasis on reading and writing. PREQ: Permission of instructor. 4 Lecture, 5 Lab, 5 Drill.</td>
</tr>
<tr>
<td>301</td>
<td>French Composition.(3)</td>
<td>PREQ: 232 or equivalent or placement.</td>
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<tr>
<td>302</td>
<td>Conversational French.(3)</td>
<td>Advanced intermediate course emphasizing topical dialogue. PREQ: 232 or equivalent or placement.</td>
</tr>
<tr>
<td>303</td>
<td>Applied French Conversation.(3,R6)</td>
<td>Apprenticeship in the intensive language program. PREQ: 232 or 240, sophomore standing; selection by faculty. 10 Lab.</td>
</tr>
<tr>
<td>304</td>
<td>Commercial French I, II.(3,3)</td>
<td>Review of vocabulary and styles used in French business letters; various aspects of French business institutions. PREQ: 232 or 240.</td>
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<tr>
<td>320</td>
<td>Methods of Teaching Foreign Language.(3)</td>
<td>Methods and materials for teaching second languages in grades K-12. PREQ: Admission to professional sequence or permission of instructor.</td>
</tr>
<tr>
<td>321</td>
<td>French Civilization I, II.(3,3)</td>
<td>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.</td>
</tr>
<tr>
<td>331</td>
<td>Survey of French Literature I, II.(3,3)</td>
<td>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.</td>
</tr>
<tr>
<td>335</td>
<td>Introduction to French Prose and Poetry.(3)</td>
<td>Introduction to French literary texts; reading and analysis of literary works. PREQ: 232 or 240.</td>
</tr>
<tr>
<td>351</td>
<td>French Phonetics and General Linguistics.(3)</td>
<td>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.</td>
</tr>
<tr>
<td>371</td>
<td>Twentieth Century French Novels in Translation.(3)</td>
<td>Selected works by Proust, Gide, Mauriac, Camus, Saint-Exupery, and Colette. No knowledge of French required; not open to French majors.</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education In French.(1 or 3,R15)</td>
<td>PREQ: 301, 302. See page 125.</td>
</tr>
<tr>
<td>393</td>
<td>Special Topics In French. (1-3, R6)</td>
<td>PREQ: 232 or 240.</td>
</tr>
</tbody>
</table>
431 Studies in French Literature.(3,R6)
Intensive study of an author or authors, a genre, movement, school, or literary period.
PREF: 232 or 240. PREF 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. PREF: 232 or 240. PREF 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. PREF: 232 or 240. PREF or COREQ: 301 and 302 or permission of department head.

481 Independent Studies in French.(1-3,R6)
PREF: 232 or 240. PREF or COREQ: 301 and 302 or permission of department head.

Geography (GEOG)

102 (301) World Regional Geography.(3)
Major world regions and global problems; techniques of thinking geographically about human behavior.(Pla)

103 (303) 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.

250 Economic Geography.(3)
Principles governing world distribution and production of economic and natural resources.

300 Weather and Climate.(4)
Meteorology (temperature, humidity, pressure, precipitation, winds, radiation); global heat budget, CO, cycle, jet stream, air masses, fronts, storms; global distribution of climate. PREF: 150. 3 Lecture, 2 Lab.

302 (GEOL 302) Geomorphology.(4)
Classification, description, origin, and development of landforms; relationships to underlying structures and climates. PREF: 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 planning, soil and vegetation studies, and with aerial photos; history of maps. 1 Lecture, 4 Lab.

322 Cartography.(4)
Map design and construction; basic projects, data gathering, and display methods. PREF: Permission of instructor. 2 Lecture, 6 Lab.

324 Introduction to Remote Sensing.(4)
Interpretation and applications of remote sensing; satellite and aerial imagery, elementary photography, stereoscopic viewing, and photomapping. PREF: 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. PREF: MATH 170, 171, and permission of instructor. 1 Lecture, 4 Lab.
389 Cooperative Education in Geography.(1 or 3,R15)  
See page 122.

400 Natural Regions of North America.(3)  
Regions of the United States and Canada; landforms, geology, climates, soils, vegetation, water; emphasis on features most affecting man. PREQ: 150 or GEOL 150.

402 Conservation of Natural Resources.(3)  
Quantity, quality, and distribution of resources in the United States; dilemma of increasing demand on a dwindling resource base.

424 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.

440 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).

444 Political Geography.(3)  
Territorial and cultural elements in the formation of national and international boundaries; case studies.

460 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.

462 Introduction to Urban Geography.(3)  
Study of the spatial structure and function of urban places; theories of city origin and growth.

464 Industrial Location and Community Development.(3)  
Measures of manufacturing; location theory; decision-making factors in the location of industry; community development planning practices. PREQ: 250 or permission of instructor.

483 Internship in Geography.(3,3,3)  
484 Practical application of academic training in an approved agency under faculty supervision. S/U grading. PREQ: Junior standing. 9 hours per week per course.

491 Topics in Geography.(1-3,R6)  
Presentation and discussion of subjects of current interest. PREQ: Permission of instructor.

493 Special Problems.(1-3,R6)  
Directed individual research on selected topics. PREQ: Permission of instructor.

Graduate Courses

Geology (GEOL)

103 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)

150 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.
155 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.

251 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 page 122.

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 X-Ray Diffraction and Analytical Methods.(3)
Theory of diffraction; production and interpretation of powder photographs and diffractometer curves; other chemical and rock preparation techniques. PREQ: Permission of instructor. 2 Lecture, 2 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 permission 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.

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)
Continuation of written and oral German grammar; readings and discussions on German 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 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: Admission to professional sequence or permission of instructor.

321 German Civilization I, II.(3,3)
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. PREQ or 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. PREQ or COREQ: 301 and 302 or permission of department head.

389 Cooperative Education in German.(1 or 3,R15)
PREQ: 301, 302. See page 122.

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. PREQ or 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. PREQ or 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. PREQ or COREQ: 301 and 302 or permission of department head.

481 Independent Studies in German.(1-3,R6)
PREQ: 232 or 240. PREQ or 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)

230 High-Level Wellness.(2)
The promotion of high-level wellness and health care.

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.

312 School and Community Health Education.(3)
History, philosophy, and future of school and community health programs; practices and procedures for healthful school living; health services and instruction; development of teaching materials.

313 Community Health and Field Experience.(4)
Home and community health requirements; governmental and voluntary community health agencies; practicum. 4 Lecture, 1 Lab.

350 First Aid Education.(2)
Care of injuries, prevention of accidents; standard first aid and CPR training. Not open to students with credit in 250.

360 Sexually Transmitted Diseases.(2) (Formerly HEAL 260)
Factual information of sexual anatomy and functioning; concepts of sexually transmitted diseases and AIDS and how decisions, behaviors and lifestyles may affect our health. 2 Lecture.

410 Organization of Health Education.(3)
Program planning, fiscal management, vital statistics, and laws pertaining to community health.

412 Seminar.(2)
Current health teaching methods.

492 Practicum in Community Health Education.(3)
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.

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. COREQ for HIM majors: HSMR 321.

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.

260 Etiology of Infectious Diseases.(3)
Disease-causing bacteria, viruses, rickettsia, fungi, and animal parasites; disease-producing mechanisms and resistance to infection. 2 Lecture, 2 Lab.

330 Legal and Legislative Aspects of Health Care.(1-3)
The legal aspects of health care and legislative forces affecting it; impact on practitioners.
370 Introduction to Pharmacology.(1-3)
Principles, including the dynamics of drug activity, synthesis, and toxicity in drug therapy. PREQ: Permission of instructor.

389 Cooperative Education in Health Sciences.(1 or 3,R15)
See page 122.

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 health care agencies.

330 Health Care Delivery Systems.(3)
Structures, components, and functions of the health care system; linkages with the nation's social, economic, and political entities; factors affecting consumer demand.

340 Perspectives in Health Care.(3)
Problems related to factors affecting health care 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 health care 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
531 Foundations of Adult Education.(3) 693 Topics in Higher Education.(1,R3)
605 The Two-Year College.(3) 695 Seminar on the Two-Year College.(2)
610 Two-Year College Instruction.(3) 710 (EDAD 710) Administration of Two-Year Colleges.(2)
636 Two-Year College Curriculum Development.(3) 783 Internship: Two-Year College Administration II.(2)
683 Internship: Two-Year College Administration I.(2) 686 Practicum in Two-Year College Teaching.(2)
History (HIST)

105 (305) History of Modern Western Civilization.(3)
Western civilization from the Renaissance through the 20th century against the back-
ground of classical civilizations and the medieval period.(P5)

106 (306) Modern American Institutions.(3)
A consideration of the major American social, economic, and political institutions in the
20th century.(Plb)

107 (307) World Cultures in Historical Perspective.(3)
Comparison of Western culture and non-Western cultures; historical developments and
their impact on the modern world.(P4)

132 World Civilization to Mid-Seventeenth Century.(3)
Social, cultural, economic, and political trends that shaped world civilization; emphasis
on the West.

133 World Civilization, 1650 to the Present.(3)

231 American History to 1865.(3)

232 American History since 1865.(3)

311 Ancient Greece and Rome.(3)
Cultural, intellectual, and political developments in Greece and Rome, including the
origins of Christianity.

313 The Medieval World.(3)
Europe from the founding of Constantinople to the late medieval period.

315 Europe in the Renaissance.(3)
The transition of Europe from medieval to modern times, 1300 to 1500.

317 History of Twentieth Century International Relations.(3)
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.

322 British History to 1603.(3)
Ancient and Roman Britain; Anglo-Saxon society; the Middle Ages; Reformation and
Tudor government and society; emphasis on England but includes Celtic history.

323 British History Since 1603.(3)
 Constitutional struggles of the 17th century; the age of aristocracy; industrial transfor-
mation and 19th century growth and reform; rise of the welfare state.

327 Modern Russia.(3)
The pre-revolutionary background and the Soviet period.

341 North Carolina History.(3)
Developments contributing to the growth of the state; the emergence of North Carolina
since 1900.

354 American Military History.(3)
Military affairs in the United States from the Revolution to the present; emphasis on war
as a social institution.

361 Latin American History I.(3)
Indian civilizations; Spanish and Portuguese exploration; the conquistadores; colonial
life; consolidation and maturity of empire; influence of the Enlightenment.
362 Latin American History II.(3)
Revolutions; independence; struggle for political stability; popular government on trial; contests of hegemony; rise of indigenous nationalism.

371 Modern China.(3)
Late Imperial China and the Nationalist and Communist revolutions.

376 History of Africa to 1800.(3)
Sub-Saharan Africa from earliest times to 1800; migrations; rise and fall of kingdoms; the European impact.

377 History of Africa, 1800 to Present.(3)
Social, economic, political, and intellectual developments from small state and stateless societies to the nation-states of today. PREQ: 376.

389 Cooperative Education in History.(1 or 3,R15)
See page 122.

397 Junior Seminar.(3)
Historical methods, historiography, and directed research.

411 Western Imperialism, 1800 to the Present.(3)
Western imperialism in Africa and Asia; World War II and its aftermath; the roots of Third World independence movements.

412 Early Modern Europe.(3)
The Reformation; development of the modern state; the Scientific Revolution; rise of capitalism; social change.

413 Europe in the Eighteenth Century.(3)
The Old Regime; wars of expansion; the Enlightenment; the French Revolution and Napoleon.

414 Europe in the Nineteenth Century.(3)
Post-Napoleonic settlement; internal, colonial, and imperial developments; unification movements; background for World War I.

416 Europe in the Twentieth Century.(3)
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.

431 Colonial America, 1492-1763.(3)
Political, social, economic, and cultural characteristics.

432 The Revolutionary Era, 1763-1800.(3)
The causes and effects of the revolution; the War for Independence; the Constitution; the Federalist Era.

433 The Young Republic, 1800-1848.(3)
Jeffersonian democracy; War of 1812; Era of Good Feelings; Jacksonian democracy; western expansion; the Mexican War.

434 Civil War and Reconstruction, 1848-1877.(3)
Sectional differences; the secession movement; military operations; Reconstruction.

435 Emergence of Industrial America, 1877-1920.(3)
Growth and conflict of organized industry and labor; agrarian decline and revolt; American imperialism; progressive reform; World War I; postwar crises.

436 The United States since 1920.(3)
Roaring Twenties, depression, New Deal; World War II; role as cold-war superpower; domestic developments.
442 History of Black America.(3)
Role of the Negro 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)
The 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)
The 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)

495 (SCI 495) Seminar in Science and Society.(2)
Home Economics (HE)

171 Orientation.(1)
The home economics profession; plan for personal and professional growth; career opportunities. S/U grading.

210 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 page 122.

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 (ET 514) Career Exploration.(3)
593 Topics in Home Economics.(1-3,R6)
601 Professional Issues.(3)
602 (ET & 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)
654 Creative Ergonomics.(3)
680 Independent Study in Home Economics.(1-3,R6)
681 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)
670 Program Evaluation.(3)
683 Field Experience in Human Resource Development.(3)
693 Topics in Human Resource Development.(3,R6)
698 Seminar 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.
Industrial Distribution (3)
The flow of industrial goods and services through the industrial distributor.

Industrial Distribution Organization (3)
Survey of organizational structure in manufacturing industries.

Problems in Industrial Distribution (1-3)
Independent study of problems in industrial distribution; project required. PREQ: Industrial distribution major and permission of instructor.

Special Topics (1-3, R6)
PREQ: Industrial distribution major and permission of instructor.

**Industrial Education and Technology (IET)**

Introduction to Industrial Education and Technology (1)
The philosophy, scope, and objectives of industrial education, industry, and related businesses; survey of employment opportunities.

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.

Furniture Manufacturing (4)
Introduction to wood technology; processing and matching wood for furniture production. Lab fee charged. 3 Lecture, 2 Lab.

Engineering Graphics (4)
Forms of industrial drawing; orthographic and pictorial projections; sketching, basic drawing board procedures, and an introduction to basic computer-aided design. Lab fee charged. 3 Lecture, 2 Lab.

Metals Technology (4)
Physical and mechanical properties of ferrous and nonferrous metals, including heat treating, casting, forming, and welding. Lab fee charged. 3 Lecture, 2 Lab.

Industrial Ceramics (3)
The industrial ceramics industry; principles of clay, glaze, and mold production. Lab fee charged. 2 Lecture, 3 Lab.

Leathercraft (3)
Tools, materials, and processes used in the leather industry through construction of leather articles. Lab fee charged. 2 Lecture, 3 Lab.

Stained Glass Glazery (3)
Practical applications and fundamentals, including came, copper foil, and epoxy construction. Lab fee charged. 1 Lecture, 4 Lab.

Graphic Arts (4)
Study of the tools, materials, equipment, and processes in graphic arts industries through design and construction experiences. Lab fee charged. 3 Lecture, 2 Lab.

Power Technology (4)
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. Lab fee charged. 3 Lecture, 2 Lab.

Industrial Arts for the Elementary Teacher (2)
Industrial procedures, tools, materials, and projects suitable for the elementary school. Lab fee charged. 1 Lecture, 2 Lab.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>335</td>
<td>Industrial Safety</td>
<td>Standards and practices for industrial and educational safety related to local, state, and federal safety regulations.</td>
</tr>
<tr>
<td>336</td>
<td>Environmental Instrumentation</td>
<td>Basic instrumentation techniques used to measure industrial safety and health hazards.</td>
</tr>
<tr>
<td>337</td>
<td>Management of Safety Systems</td>
<td>Comprehensive, organized management approach for identifying, measuring, and reducing operational errors leading to accidents.</td>
</tr>
<tr>
<td>338</td>
<td>Fire Control and Compliance Management</td>
<td>Emergency planning, compliance with standards, recognition of fire hazards, implementation of controls and extinguishing agents and methods.</td>
</tr>
<tr>
<td>341</td>
<td>Alternate Energy Sources</td>
<td>Overview of alternate energy sources; active and passive solar energy, wind energy, hydroelectricity; other topics.</td>
</tr>
<tr>
<td>342</td>
<td>Construction Processes</td>
<td>Principles and processes for producing marketable buildings as these relate to the North Carolina Building Code.</td>
</tr>
<tr>
<td>350</td>
<td>Technical Drawing and Illustration</td>
<td>Orthographic and axonometric drawing including multiview, isometric, dimetric, trimetric, cavalier and cabinet obliques, dimensioning, sectioning and assemblies; surface treatments.</td>
</tr>
<tr>
<td>351</td>
<td>Architectural Drafting and Design I</td>
<td>Designing and drawing a complete set of residential plans; concepts and techniques of house construction; building codes.</td>
</tr>
<tr>
<td>352</td>
<td>Furniture and Architectural Drafting and Design</td>
<td>Furniture and architectural design, dimensioning, detailing, and illustration. PREQ: 350, 351.</td>
</tr>
<tr>
<td>353</td>
<td>Orthographic Rendering and Design</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. PREQ: 350, 351 or permission of instructor.</td>
</tr>
<tr>
<td>361</td>
<td>Machining Processes</td>
<td>Metal removal and fabrication processes. Lab fee charged. PREQ: 260; MATH 130, 144 or 145.</td>
</tr>
<tr>
<td>370</td>
<td>Electricity</td>
<td>Direct and alternating current sources, circuits, circuit analysis; introduction to electronic functions. Lab fee charged. PREQ: MATH 144 or 145 and PHYS 130 or 230.</td>
</tr>
<tr>
<td>371</td>
<td>Electronics</td>
<td>Solid state and vacuum tube devices, power supply, amplifier, oscillator, and logic circuits. Lab fee charged. PREQ: 370.</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Industrial Technology</td>
<td>Activities for schools, camps, churches, retirement centers, and other recreational programs. Lab fee charged.</td>
</tr>
<tr>
<td>400</td>
<td>Recreational Crafts</td>
<td>Activities for schools, camps, churches, retirement centers, and other recreational programs. Lab fee charged.</td>
</tr>
</tbody>
</table>
409 History and Philosophy of Vocational Education.(3)

420 Polymer Technology.(4)
Industrial fabrication techniques; topics in polymer science and mold construction. Lab fee charged. 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. Lab fee charged. PREQ: 371. 2 Lecture, 2 Lab.

480 Problems in Industrial Education.(1-3)
Independent study of problems in industrial, technical, or vocational education; project required. PREQ: Industrial education major; permission of adviser and instructor.

493 Special Topics.(1-3,R6)
P REQ: 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)
570 Advanced Electronics.(3)
589 Cooperative Education in Industrial Technology.(3,R6)
593 Topics in Industrial Education.(1-3,R6)
602 (OA & HE 602) Vocational Education History and Philosophy.(3)
610 (HE 610) Vocational/Technical Evaluation.(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)
670 Research Methods in Vocational/Technical Education.(3)
680 Independent Study.(3,R6)
688 Internship in History.(1-2,R-3)
695 Seminar in Industrial Education.(3)
699 Thesis.(3,R6)

Interior Design (IDSN)
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)

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 page 122.

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)
484 Integration of theory and practice in a setting appropriate to the student's career field.
485 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.

Journalism (JOUR)

140 (RTV 140) Introduction to Mass Communications.(3)
301 (RTV) 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; JOUR/RTV 140; basic typing skills.

302 Reporting II.(3)
News writing, reporting, and gathering; interviewing techniques. PREQ: ENGL 102; JOUR/RTV 301.

303 Advertising and Promotional Copy Writing.(3)
Writing copy for promotional and display purposes. PREQ: ENGL 102.

304 Feature Writing.(3)
Writing of newspaper features; emphasis on story ideas and writing styles. PREQ: ENGL 102; JOUR/RTV 301.

389 Cooperative Education in Journalism.(1 or 3,R15)
See page 122.

393 Topics in Journalism.(3,R6)
Study of a selected topic or special area of interest in the practice of journalism, e.g., photojournalism, sports writing. PREQ: ENGL 102; JOUR/RTV 301.

401 News Editing I.(3)
Introduction to the editing of news stories; headline writing; news values. PREQ: ENGL 102; JOUR/RTV 301.

402 Newspaper Layout and Design.(3)
Layout and design of front and inside pages; use of photographs; news judgment in page makeup. PREQ: 401.

403 Editorial Writing.(3)
Selection and discussion of editorial topics; writing of newspaper editorials; editorial page policies and practices. PREQ: ENGL 102; JOUR/RTV 301.

414 Newspaper Management.(3)
Business and editorial policies of weekly and daily newspapers; circulation, advertising, and promotional practices. PREQ: ENGL 102; JOUR/RTV 140.

420 Press Responsibility.(3)
Legal problems facing the press, from libel to closed courtrooms; rights, restrictions, and responsibilities of reporters. PREQ: ENGL 102; JOUR/RTV 140.

483 Writing Internship.(3,3,3)
Practical experience in a writing-related setting. S/U grading. 9 hours per week per course.

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.

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) 
Interaction of individuals, groups, and organizations; learning, motivation, leadership, communication; international implications. PREQ: 300.

389 Cooperative Education in Management (1 or 3, R15) 
See page 122.

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.

Graduate Courses
605 Organizational Behavior and Analysis. (3) 670 Project Management Systems. (3)
606 Quantitative Analysis for Business I. (3) 672 Human Resource Management in Projects. (3)
607 Strategic Management. (3) 674 Project Contract Management. (3)
608 Personnel Administration. (3) 676 Specialized Project Management Techniques I. (3)
609 The Collective Bargaining Process. (3) 677 Specialized Project Management Techniques II. (3)
611 Production and Operations Management. (3) 678 Project Management Organization and Policy. (3)
613 Management of International Operations. (3) 682 Research Project in Management. (3, R6)
614 Managerial Career Development. (3) 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.

352 Strength of Materials. (3)
The relationship between externally applied forces and internally induced stresses in structural members. PREQ: 351 or equivalent. 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. (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. PREQ: 130 or equivalent and computer literacy.

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 page 122.

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 management, 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; governmental and institutional 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. 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) 604 Marketing Communications.(3)
602 Marketing Research.(3) 682 Research Project in Marketing.(3, R6)
603 Consumer Behavior.(3) 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, functions, and graphs. PREQ: 100 or pass Algebra Skills Test.

140 Introductory Calculus.(5)
The differential and integral calculus of algebraic functions of one variable. PREQ: 130.

144 Applied Trigonometry.(3)
Topics including right triangles, trigonometric functions, graphing; basic identities, triangle solutions, and complex numbers; emphasis on applications. Not open to students with credit in 145. PREQ: 130.

145 Trigonometry.(3)
Basic trigonometry; functions, identities, graphs, solution of equations and triangles, complex numbers, analytical trigonometry. Not open to students with credit in 144. PREQ: 130 or pass math placement exam.

146 Algebra and Analytical Geometry.(3)
Topics including binomial theorem, logarithmic and exponential functions; induction, polynomials, series, conic sections, polar coordinates, parametric equations. PREQ: 130 or placement. PREQ or COREQ: 145.

153 Calculus I.(4)
Limits, continuity, derivatives, and integrals of algebraic functions with applications. PREQ: 146.

170 Applied Statistics.(3)
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. PREQ: 100 or pass Algebra Skills Test.

171 Statistics with Minitab.(1)
A laboratory course to provide experience using the minitab statistical package. COREQ: 170 or permission of instructor. 2 Lab.

230 Theory of Arithmetic I.(3)
Logic, sets, relations, mathematical systems, counting, numeration systems, and algorithms for whole numbers.

231 Theory of Arithmetic II.(3)
Measurement (metric system), number theory: integers, rationals, irrationals, and reals. PREQ: 230.
254 Matrix Theory. (3)
Matrices and linear equations. Not open to students with credit in 262. PREQ: 146, CS 150.

255 Calculus II. (4)
Derivatives and integrals of transcendental functions, techniques of integration, indeterminate forms, improper integrals, infinite series. PREQ: 153.

256 Calculus III. (4)
Plane curves, polar coordinates, vectors and solid analytical geometry, vector-valued functions, partial differentiation, multiple integrals. PREQ: 255.

260 Informal Geometry. (3)
Points, lines, planes, constructions; axiomatic structure of geometry and the nature of proof. PREQ: 231.

262 Introduction to Linear Algebra. (3)
Systems of equations, matrices, vector spaces, and linear transformations. Not open to students with credit in 254. COREQ: 255.

270 Statistical Methods I. (3)
Descriptive statistics, probability and sampling distributions, estimation, hypothesis testing. PREQ: 170 or 146.

286 Laboratory Practicum I, II. (1,1)
287 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.

323 Advanced Calculus I. (3)
Sequences of real numbers, continuous functions, and differentiation. 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 problem, and integer programming. PREQ: 254 or 262; 255.

361 Introduction to Abstract Algebra. (3)
Groups, rings, and fields. PREQ: 262.

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 page 122.

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.

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, quaterions, 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.

Graduate Courses

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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>507</td>
<td>Survey of Algebra. (3)</td>
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<tr>
<td>508</td>
<td>Survey of Analysis. (3)</td>
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<tr>
<td>509</td>
<td>Mathematics for Secondary Teachers. (3)</td>
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<td>512</td>
<td>Modern Geometry. (3)</td>
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<td>Advanced Calculus II. (3)</td>
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<td>541</td>
<td>Introduction to Numerical Analysis. (3)</td>
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<tr>
<td>561</td>
<td>Abstract Algebra. (3)</td>
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<td>562</td>
<td>Linear Algebra. (3)</td>
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<td>570</td>
<td>Statistical Theory II. (3)</td>
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<td>589</td>
<td>Cooperative Education in Mathematics. (3, R6)</td>
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<tr>
<td>593</td>
<td>Topics in Mathematics. (1-6, R6)</td>
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<tr>
<td>601</td>
<td>Modern Mathematics for Teachers I. (3)</td>
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<td>602</td>
<td>Modern Mathematics for Teachers II. (3)</td>
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<td>603</td>
<td>Modern Mathematics for Teachers III. (3)</td>
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<td>610</td>
<td>Computers in Education. (3)</td>
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<td>620</td>
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<td>623</td>
<td>Analysis II. (3)</td>
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<td>624</td>
<td>Complex Analysis. (3)</td>
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<td>630</td>
<td>Mathematical Modeling. (3)</td>
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<td>632</td>
<td>Methods of Applied Mathematics. (3)</td>
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<td>634</td>
<td>Partial Differential Equations and Boundary Value Problems. (3)</td>
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<td>640</td>
<td>Numerical Analysis. (3)</td>
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<td>642</td>
<td>Computer Science. (3)</td>
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<td>646</td>
<td>Numerical Linear Algebra. (3)</td>
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<td>661</td>
<td>Applied Algebra. (3)</td>
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<td>670</td>
<td>Advanced Statistical Theory. (3)</td>
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<td>672</td>
<td>Advanced Statistical Methods. (3)</td>
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<td>693</td>
<td>Topics in Mathematics. (1-6, R6)</td>
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<tr>
<td>694</td>
<td>Topics in Mathematics Education. (1-6, R6)</td>
</tr>
<tr>
<td>699</td>
<td>Thesis. (3, R6)</td>
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</tbody>
</table>
Medical Record Administration (HSMR)

301 Introduction to Medical Record Administration.(3)
Orientation to medical institutions; history of medical records; components, development, and use of medical records; functions of medical record departments.

303 Planning and Organizing in Medical Record Administration.(2)
Applications of principles of planning and organizing in the management of medical record services. PREQ: 301, COREQ: 321. 2 Lecture.

310 Fundamentals of Medicine for Medical Record Administration.(3)
Current medical treatment and overall management of the patient; emphasis on etiology and symptoms. PREQ: BIOL 292 and HSCC 220.

321 Medical Record Practice Lab.(1)
Medical record administration computer application and supervised hospital practice. COREQ for HSMR Majors: 303. 2 Lab.

389 Cooperative Education in Medical Records.(1 or 3, R12)
PREQ: HSCC 389. See also page 122.

401 Regulation of Health Care Facilities.(3)
Medical staff organization; accreditation and regulation of general and specialty care facilities. PREQ: 404.

402 Controlling Resources in Medical Record Administration.(2)
Application of principles of controlling in the management of medical record services. PREQ: 303, COREQ: 401.

403 Medical Record Data Collection.(2)

404 Medical Record Classification Systems.(4)
System of coding, classifying, and retrieving disease and operation data. PREQ: 301, 310. 3 Lecture, 2 Lab.

405 Advanced Classification Systems.(2)
ICD-9-CM Coding for prospective payment; managing other classification systems. PREQ: 404. 2 Lecture.

406 Topics in Medical Record Administration.(4)
Various current topics in MRA: project in the operation of a medical record department. 3 Lecture, 3 Lab.

483 Management Affiliation.(4)
A five-week, full-time management experience in a primary health-care facility. PREQ: 402.

484 Specialty Affiliation.(1)
A two-week, full-time management experience in specialty hospitals and other health-care facilities. PREQ: 402.

487 Medical Record Directed Practicum I, II.(2, 2)

495 Seminar in Medical Records.(3)
Discussion of problems the student may expect to encounter in administering medical record services. PREQ: 402.
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)

117 Introduction to Guitar.(1)
Group lessons in guitar and the fundamentals of music for students who do not read music. 2 Lab.(F5)

138 Ear Training Laboratory.(1,1)
Basic notation reading and aural skills. PREQ: Permission of department head.

152 Aural Skills Laboratory I, II.(1,1)
153 Aural perception of rhythmic, melodic, and harmonic devices. PREQ: Permission of department head.

177 Basic Musicianship I, II.(3,3)
178 Basic theoretical and analytical skills. PREQ: Permission of department head for 177; 177 for 178. 3 Lecture, 2 Lab.

181 Introduction to MIDI/Synthesis.(1)
Survey of MIDI devices, synthesis techniques, and contemporary music technology. PREQ: Permission of instructor. 2 Lab.

182 Computer Applications in Music.(2)
Use of the computer to prepare parts and scores, and to orchestrate and arrange music. PREQ: 152 and 177 or permission of instructor.

252 Aural Skills Laboratory, III.(1)
Advanced aural perception of rhythmic, melodic, and harmonic devices. PREQ: 153. 2 meetings.

253 Aural Skills Laboratory, IV.(1)
Advanced aural perception of rhythmic, melodic, and harmonic devices. PREQ: 252. 2 meetings.

277 Theory and Literature I, II.(3,3)
278 Application of theoretical and analytical skills to literature. PREQ: 178 for 277; 277 for 278. 3 meetings.

301 Basic Skills.(2)
Music fundamentals and elementary performance skills. 3 meetings.

302 Music for Classroom Teachers.(2)
Methods and materials for teaching music in the elementary school. PREQ: 301. 3 meetings.

305 Junior Recital.(1)
Public performance. May be scheduled after hearing committee approval and completion of junior qualifying examination. PREQ: Junior Level Qualifying Examination.
325 Music in the Elementary and Middle School. (3)
Problems in teaching and supervising the music program in the elementary and middle school. PREQ: 278.

326 Instrumental Methods and Materials. (3)
Methods and materials used in instrumental teaching.

327 Choral Methods and Materials. (3)
Methods and materials used in developing the school choral program.

350 Music History I, II. (3,3)
351 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 page 122.

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: 253, 278.

429 Instrumental Conducting. (3)
Application of techniques and analysis to instrumental conducting. PREQ: 253, 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.

472 Jazz Arranging. (3)
Techniques of instrumental and vocal jazz arranging. PREQ: 470.

477 Contrapuntal Techniques. (3)
Survey of contrapuntal practice from 1500 to the present, focusing on the 16th, 18th, and 20th-century techniques. PREQ: 278.
478 Compositional Techniques (3)
Composing in styles from the tonal period to the present. PREQ: 477.

493 Topics in Music (1-3, R12)
PREQ: Permission of department head.

### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>501</td>
<td>Music in the Elementary School (2)</td>
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<tr>
<td>503</td>
<td>Marching Band Techniques (2)</td>
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<tr>
<td>505</td>
<td>Workshop in Music Education (2)</td>
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<tr>
<td>521</td>
<td>Wind Literature (3)</td>
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<td>522</td>
<td>Vocal Literature (3)</td>
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<td>523</td>
<td>Choral Literature (3)</td>
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<tr>
<td>524</td>
<td>Keyboard Literature (3)</td>
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<td>525</td>
<td>Studies in Contemporary Music (3)</td>
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<tr>
<td>528</td>
<td>Choral Conducting (3)</td>
<td></td>
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<tr>
<td>571</td>
<td>Arranging for High School Band and Chorus (3)</td>
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<tr>
<td>572</td>
<td>Jazz Arranging (3)</td>
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<td>577</td>
<td>Counterpointal Techniques (3)</td>
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<td>578</td>
<td>Compositional Techniques (3)</td>
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<td>592</td>
<td>Orff-Schulwerk Level I (3)</td>
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<td>593</td>
<td>Topics in Music (1-3, R12)</td>
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<td>595</td>
<td>Seminar in Arts Management (3)</td>
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<td>596</td>
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<td>620</td>
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<td>625</td>
<td>Studies in Music Literature (3, R6)</td>
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<td>Form and Analysis (3)</td>
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<td>Studies in Pedagogy (3, R9)</td>
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<td>660</td>
<td>Music in Worship (3)</td>
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<td>Research Project in Music Education (3)</td>
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<td>Seminar in Choral Techniques and Materials (2)</td>
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<td>Seminar in Instrumental Techniques and Materials (3)</td>
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<td>699</td>
<td>Thesis (3, R6)</td>
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</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. To take the examination a second time, students must first repeat 1/233, 1/237, 1/243, 1/247, 1/257, 1/263, or 1/267. Details of performance requirements and courses of study are available in the Music Department Student Handbook. All students enrolled for two credits must participate in a major ensemble.

The major ensembles appropriate to the primary area of performance are as follows: band for wind, percussion, and keyboard in the instrumental curriculum for the B.S. Ed. degree; orchestra for strings, Concert Choir or University Chorus for keyboard (in both the B.A. and General B.S. Ed. degree programs) and voice.

#### Brass

Brass:
- Brass:
  - 130, 131, 230, 231, 330, 331, 430, 431 (1 each)
  - 132, 133, 232, 233, 332, 333, 432, 433 (2 each)

#### Percussion

Percussion:
- 134, 135, 234, 235, 334, 335, 434, 435 (1 each)
- 136, 137, 236, 237, 336, 337, 436, 437 (2 each)

#### Piano

Piano:
- 140, 141, 240, 241, 340, 341, 440, 441 (1 each)
- 142, 143, 242, 243, 342, 343, 442, 443 (2 each)

#### Organ

Organ:
- 144, 145, 244, 245, 344, 345, 444, 445 (1 each)
- 146, 147, 246, 247, 346, 347, 446, 447 (2 each)

#### Harpsichord

Harpsichord:
- 150, 151, 250, 251 (1 each)

#### Voice

Voice:
- 154, 155, 254, 255, 354, 355, 454, 455 (1 each)
- 156, 157, 256, 257, 356, 357, 456, 457 (2 each)

#### Woodwind

Woodwind:
- 160, 161, 260, 261, 360, 361, 460, 461 (1 each)
- 162, 163, 262, 263, 362, 363, 462, 463 (2 each)

#### String

String:
- 164, 165, 264, 265, 364, 365, 464, 465 (1 each)
- 166, 167, 266, 267, 366, 367, 466, 467 (2 each)

#### Music Synthesis

Music Synthesis:
- 188, 189, 288, 289, 388, 391, 488, 489 (2 each)
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, II.(1,1)  
169 Playing stringed instruments; 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Required Preqs</th>
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<td>284</td>
<td>Synthesizer Masterclass</td>
<td>(1,R8)</td>
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<td>Group lessons in MIDI/Synthesis for secondary students. PREQ: 181 and 182 or permission of instructor.</td>
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<td>348</td>
<td>Piano Class V, VI</td>
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<td>349</td>
<td>Continuation of 248 and 249</td>
<td>2 meetings.</td>
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<td>370</td>
<td>Ensemble</td>
<td>(1,R12)</td>
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<td>Performance in vocal and instrumental ensembles. PREQ: 175 or permission of department head.</td>
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<td>371</td>
<td>University Chorus</td>
<td>(1,R8)</td>
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<td>Study and performance of representative choral works; open to any student meeting eligibility requirements. 3 meetings. PREQ: 171 or permission of department head.</td>
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<td>372</td>
<td>Concert Choir</td>
<td>(1,R8)</td>
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<td>Audition required; public performances. 4 meetings. PREQ: 172 or permission of department head.</td>
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<tr>
<td>373</td>
<td>Band</td>
<td>(1,R8)</td>
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<tr>
<td></td>
<td>Performance in a wide variety of music in the marching, symphonics, and concert bands; open to any student meeting eligibility requirements. 4 meetings. PREQ: 173 or permission of department head.</td>
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<tr>
<td>374</td>
<td>Orchestra</td>
<td>(1,R8)</td>
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<tr>
<td></td>
<td>Experience for advanced strings, wind, and percussion players; formal concerts and performances. PREQ: 174 or permission of department head.</td>
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<tr>
<td>448</td>
<td>Piano Class VII, VIII</td>
<td>(1,1)</td>
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<td></td>
<td>Continuation of 348 and 349; must be elected in sequence until piano proficiency is satisfied; credit not applicable toward major requirements. 2 meetings.</td>
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Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Required Preqs</th>
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<tbody>
<tr>
<td>594</td>
<td>Topics in Music</td>
<td>(1-3,R9)</td>
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<tr>
<td>611</td>
<td>Applied Music</td>
<td>(1,R4)</td>
<td></td>
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<tr>
<td>612</td>
<td>Applied Music</td>
<td>(2,R8;3,R9)</td>
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<tr>
<td>613</td>
<td>Applied Music</td>
<td>(3,R9)</td>
<td></td>
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<tr>
<td>675</td>
<td>Ensemble</td>
<td>(1,R6)</td>
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**Natural Resources Management (NRM)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Required Preqs</th>
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<tbody>
<tr>
<td>340</td>
<td>Natural Resource Measurements</td>
<td>(4)</td>
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<tr>
<td></td>
<td>Basic land, climatic, hydrologic, and vegetative measurements used in resource management. 3 Lecture, 2 Lab.</td>
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<tr>
<td>342</td>
<td>Microcomputer Applications in NRM</td>
<td>(1)</td>
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<tr>
<td></td>
<td>Applications of spreadsheets, database management, and specialized computer software to problems in Natural Resources Management. 1 Lab.</td>
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<tr>
<td>344</td>
<td>Introduction to Geographic Information Systems</td>
<td>(3)</td>
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<tr>
<td></td>
<td>Introduction to and applications of Geographic Information Systems in Natural Resources Management. 2 Lecture, 2 Lab.</td>
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<tr>
<td>350</td>
<td>Foundations of Silviculture</td>
<td>(4)</td>
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<td></td>
<td>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.</td>
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<tr>
<td>352</td>
<td>Forest Resource Measurements</td>
<td>(3)</td>
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<td></td>
<td>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.</td>
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<tr>
<td>389</td>
<td>Cooperative Education in NRM</td>
<td>(1 or 3,R15)</td>
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<td>See page 122.</td>
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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 Transition to Professional 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, 1 Lab.

350 Introduction to Nursing Science.(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. 3 Lecture, 1 Seminar.
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 care 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 page 122.

393 Topics in Nursing.(1-3,R12)
PREQ: Permission of instructor. S/U Grading.

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. 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 health-care 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 are presented. Focus is on 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)
Focus is on planning nursing care in hypothetical situations for the ill adult with complex health care problems. Analysis of a selected community is included. 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.

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 health care 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 page 122.

431 Food Preservation.(3)
Principles and procedures for food preservation; home methods, principles of home food sanitation and spoilage, food storage techniques. PREQ: FSM 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: FSM 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)
Integration of theory and practice in a setting appropriate to the student’s career field. S/U grading. PREQ: Permission of instructor. 9 hours per week per course.

### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>531</td>
<td>Food Preservation</td>
<td>3</td>
</tr>
<tr>
<td>533</td>
<td>Methods in Human Nutrition and Foods</td>
<td>3</td>
</tr>
<tr>
<td>534</td>
<td>Experimental Methods of Foods</td>
<td>4</td>
</tr>
<tr>
<td>536</td>
<td>Advanced Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>537</td>
<td>Diet Therapy</td>
<td>3</td>
</tr>
<tr>
<td>538</td>
<td>Clinical Experience in Dietetics</td>
<td>1</td>
</tr>
<tr>
<td>539</td>
<td>Introduction to Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>630</td>
<td>Nutrition Throughout the Life Cycle</td>
<td>3</td>
</tr>
</tbody>
</table>

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 high school 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 page 122.

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 (IET & HE 602) Vocational Education History and Philosophy.(3) 684 Internship in a Business Firm.(1-3)
603 Research in Business Education.(3) 693 Topics in Business and Office Education.(1-3,R9)
605 Managerial Communication.(3) 695 Seminar in Business and Office Education.(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: Permis-
   sion 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/demonstra-
   tion.

383 Internship in Parks and Recreation Management.(1-3,R3)
   S/U grading. PREQ: Permission of program coordinator. Minimum of 3 hours per 
   credit hour.

389 Cooperative Education in PRM.(1 or 3,R15)
   See page 122.
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, 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.

480 Independent Study.(1-3,R6)
PREQ: Permission of program coordinator.

483 Internship in Parks and Recreation Management.(3,3,3)
Placement in cooperating agency to relate classroom learning to practice. S/U grading.

485 Topics in Parks and Recreation Management.(1-3,R6)
PREQ: Permission of program coordinator. 1 Lecture, 2 Lab.

495 Seminar in Parks and Recreation Management.(1)
Current trends and issues; individual research topics; employment decision making; graduate school advisement; presentation of internship experience. PREQ: Permission of instructor. 2 Lab/discussion.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<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>
<td></td>
<td>(1-3,R6)</td>
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<tr>
<td>560</td>
<td>Management of Natural and Cultural Resources.(3)</td>
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<td>561</td>
<td>Community Recreation Management.(3)</td>
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<td>580</td>
<td>Independent Study.(1-3,R6)</td>
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<tr>
<td>583</td>
<td>Internship in Parks and Recreation Management</td>
<td>(1-3,R6)</td>
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<tr>
<td>593</td>
<td>Topics in Parks and Recreation Management.</td>
<td>(1-3,R6)</td>
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<tr>
<td>101</td>
<td>Man and Value.(3)</td>
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<td>(P3a)</td>
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<tr>
<td>201</td>
<td>Logic and Its Uses.(3)</td>
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<td>(F3)</td>
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<tr>
<td>231</td>
<td>Introduction to Ethics.(3)</td>
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<td>232</td>
<td>Introduction to Symbolic Logic.(3)</td>
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<td>304</td>
<td>Ancient Philosophy.(3)</td>
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<td>305</td>
<td>Medieval Philosophy. (3)</td>
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<td>306</td>
<td>Modern Philosophy.(3)</td>
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<td>307</td>
<td>Nineteenth Century Philosophy. (3)</td>
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<td>308</td>
<td>Contemporary Philosophy.(3)</td>
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<td>310</td>
<td>Philosophy of Art.(3)</td>
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<td>311</td>
<td>Philosophy of Science.(3)</td>
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<td>312</td>
<td>Philosophy of Religion. (3)</td>
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<td>320</td>
<td>Ethics and the Professional.(3)</td>
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<tr>
<td>330</td>
<td>American Philosophy.(3)</td>
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**Philosophy (PHIL)**

**101 Man and Value.(3)**
Examination of ways in which philosophers have interpreted reality, knowledge, and the nature of values.

**201 (300) Logic and Its Uses.(3)**
Principles and problems of reasoning; analysis and evaluation of arguments on philosophical, social, and scientific issues.

**231 Introduction to Ethics.(3)**
A treatment of questions of ethical values as they appear in both contemporary and historical contexts.

**232 Introduction to Symbolic Logic.(3)**
Propositional and predicate logic, logic of modality, theory of logic.

**304 Ancient Philosophy.(3)**
The Pre-Socratics, Plato, and Aristotle.

**305 Medieval Philosophy. (3)**
Selected medieval philosophers, such as Augustine, Anselm, Averroes, Maimonides, Bonaventure, Aquinas, Scotus, and Ockham.

**306 Modern Philosophy.(3)**
Sixteenth to eighteenth centuries: the British empiricists and Continental rationalists.

**307 Nineteenth Century Philosophy. (3)**
Kant, Hegel, and other selected nineteenth century philosophers, such as Fichte, Marx, Mill, Kierkegaard, and Nietzsche.

**308 Contemporary Philosophy.(3)**
Selected movements in contemporary philosophy, such as analytic philosophy, existentialism, phenomenology, process philosophy, and pragmatism.

**310 Philosophy of Art.(3)**
Consideration of ways of making reflective claims about art; emphasis on development of a personal viewpoint.

**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 Beginning/Advanced Beginning Swimming. (1)
Basic water safety skills; American Red Cross swimming outline. 2 meetings.(F5)

103 Intermediate/Advanced Swimming and Aquatic Sports. (1)
Swimming strokes and diving; American Red Cross outline; skills, rules, conditioning, and strategy for water polo, basketball, volleyball, and relays. 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: Current Red Cross Certificate in Emergency Water Safety or Lifesaving Training or Advanced Lifesaving. 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)
Lab fee charged. PREQ: 103 or equivalent. 1 two-hour meeting.(F5)

113 Hiking (1)
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. 2 meetings. (F5)

114 Jogging. (1)
Principles and physiological benefits of running and aerobic exercise. 2 meetings.(F5)

115 Weight Training. (1)
Execution of various lifts; isotonic exercises; related health and safety factors. 2 meetings.(F5)

116 Slimnastics. (1)
Exercise and weight control; correlation of proper exercise to body proportions. 2 meetings.(F5)

117 Wrestling. (1)
2 meetings.(F5)
118 Aerobic Dance.(1)
A physical fitness program utilizing simple dance routines and exercises. 2 meetings.(F5)

122 Beginning Tennis.(1)
2 meetings.(F5)

123 Beginning Golf.(1)
2 meetings.(F5)

124 Handball.(1)
One-wall and four-wall handball. 2 meetings.(F5)

125 Racquetball.(1)
One-wall and four-wall racquetball. 2 meetings.(F5)

126 Bowling.(1)
2 meetings.(F5)

127 Badminton.(1)
Singles and doubles games. 2 meetings.(F5)

129 Archery.(1)
2 meetings.(F5)

202 Casting.(1)
Bait, spin, and fly casting; fundamentals and care of equipment. 2 meetings.(F5)

203 Gun Handling. (1)
Shooting techniques, positions, gun laws, care of equipment. Lab fee charged. 2 meetings. (F5)

204 Snow Skiing.(1)
Lab fee charged. Meetings as announced.(F5)

205 Modern Dance and Choreography.(1)
Dance as an art form and a physical activity; elements of composition for expressive, creative, rhythmic movement. 2 meetings.(F5)

206 Folk and Square Dancing.(1)
Skills, control, poise required in folk, national, and character dances. 2 meetings.(F5)

207 Fencing.(1)
2 meetings.(F5)

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.

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)
262 Fitness activities: aquatic, aerobic, and weight training skills in 261;
263 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)
266 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. (2)
Class management, teaching methods, and program content for grades K-12.

330 Aquatic Recreation Management. (3)
Organization, programming, facility design, and maintenance in various aquatic recreational 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 page 122.

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) 640 Administration of Physical Education. (3)
514 Camp Leadership. (2) 650 Physiology of Motion. (3)
600 The Elementary Physical Education Curriculum. (3) 660 Scientific Foundation of Physical Activity. (3)
615 Legal Issues for the Physical Education, Coach and 665 Exercise Testing and Prescription. (3)
  Sport Administrator. (3) 675 Issues in Intramurals and Athletics. (3)
621 Research in Health, Physical Education, Recre- 676 Research Techniques in Exercise Physiology. (3)
ation, and Dance. (3) 694 Special Problems. (1-3)
630 Principles of Physical Education. (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. (P2)

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.

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)

350 Atomic Physics. (4)
Quantum phenomena, potentials, introductory quantum mechanics, one electron and multiple electron atoms, molecules, introduction to solids. PREQ: 131, 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 and 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 page 122.

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 governmental 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 governmental 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 page 122.

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 examined.

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)
The 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 governmental or community agency applying academic studies to practice. 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)
509 **National Security Policy.** (3)
511 **Civil Rights and Liberties.** (3)
521 **Political and Organizational Leadership.** (3)
536 **Dynamics of World Order.** (3)
549 **Political Socialization.** (3)
580 **Reading in Political Science.** (3)
593 **Contemporary Political Systems.** (3,R6)
595 **Seminar: The American Political System.** (3)
676 **Government and Press Relations.** (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. (F3)

250 **General Psychology.** (3)
Overview of psychology and the scientific study of behavior; topics in social, abnormal, 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.

280 **Research in Psychology I.** (1-3, R3)
Introductory-level supervised bibliographical or research activity. S/U Grading. PREQ: Permission of instructor.
Contemporary Issues in Psychology (1, R3)
A forum for topics of current interest in psychology.

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.

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.

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.

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.

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.

Development: Early Adulthood through Maturity (3)
Physiological, cognitive, emotional, psychological, and social development after adolescence. PREQ: 250 or permission of instructor.

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.

Human Sexuality (3)
Physiological, biochemical, psychological, social, and legal aspects of human sexual behavior.

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.

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.

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.

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.

Cooperative Education in Psychology (1 or 3, R15)
See page 122.
393 Topics in Psychology.(3, R9)
PREQ: 250 or permission of instructor.

410 Individual Psychology.(3)
The 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.

441 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.

444 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.

448 Human Neuropsychology.(3)
A 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.

455 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.

460 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.

470 Abnormal Psychology.(3)
Theories of psychopathology; etiology, dynamics, symptomatology, diagnosis, and treatment. PREQ: 250 or permission of instructor.

474 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.

480 Research in Psychology.(1-6,R6)
Supervised research experiences for advanced students. S/U grading. PREQ: 250, 251, 252; permission of instructor.

482 Internship in Psychology.(3,3,3,3)
Application of theory, methods, and techniques in a cooperating agency under faculty supervision. PREQ: 2.0 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.
495 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) 651 Advanced Research Methods.(3)
512 Attitudes and Public Opinion.(3) 652 Advanced Research: Proposal Writing.(1)
515 Community Psychology.(3) 661 Psychological Assessment I.(4)
526 Death and Dying.(3) 662 Personality Assessment.(3)
530 Personality.(3) 663 Assessment and Intervention with Infants.(3)
540 Physiological Psychology.(3) 671 Advanced Psychopathology.(3)
541 Health Psychology.(3) 673 Professional Issues.(3)
544 Language, Memory, and Cognition.(3) 675 Behavioral Interventions.(3)
548 Human Neuropsychology.(3) 676 Psychotherapy.(3)
555 Systems and Theories in Psychology.(3) 677 Group Psychotherapy.(3)
570 Abnormal Psychology.(3) 678 Family Systems.(3)
574 The Emotionally Disturbed Child and Adolescent.(3) 679 Survey of Clinical Psychology.(3)
610 Advanced Social Psychology.(3) 680 Directed Study in Psychology.(3,R6)
612 Group Dynamics.(3) 683 Internship in Psychology.(6,6)
621 Advanced Educational Psychology.(3) 684
624 Child Development.(3) 686 Practicum in Psychology.(4)
625 Adolescent Development.(3) 693 Topics in Psychology.(3,R9)
626 Adulthood and Aging.(3) 699 Thesis.(3,R6)

Public Affairs (PA)

Graduate Courses

571 Government-Business Relations.(3) 672 Governmental Organizations.(3)
572 Public Policy Formulation.(3) 673 Public Policy Analysis.(3)
670 Public Affairs Administration.(3) 674 Statistics and Decision Making.(3)
671 Budgetary Processes.(3) 676 Government and Press Relations.(3)
685 Internship in Public Affairs.(3)

Radio and Television (RTV)

140 (JOUR 140) Introduction to Mass Communications.(3)
Channels of mass communications: television, film, newspapers, magazines, books, recordings; their organization, characteristics, and methods of communication; current trends and problems.

250 Fundamentals of Broadcasting.(3)
Historical, cultural, and economic aspects of broadcasting and electronic communications. PREQ: 140.

251 Broadcast Writing.(3)
Writing commercials, public service announcements, station promotions, and short educational/entertainment features for radio and television. PREQ: 250, ENGL 102. 2 Lecture, 2 Lab.

253 Comparative Studies in Film and Television.(3)
Evaluative study of the relationship between the film and television industries; historical perspectives, techniques and impact; emphasis on the "language" of video. PREQ: 250 and ENGL 102 or permission of instructor. 3 Lecture, 2 Lab.

301 (JOUR 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; RTV/JOUR 140; basic typing skills. (Formerly 240)

340 Multi-Media Techniques.(3)
A combination of the study of radio and television production and still photography. PREQ: Permission of department head. 2 Lecture, 1 Lab.

353 Film Production.(3)
Basic elements of 16mm motion picture production; emphasis on practical production techniques and animation. PREQ: 251, 253; or permission of instructor. 2 Lecture, 2 Lab.
354 Radio Production I.(3) Practical course in production of radio commercials, public service materials, and news actualities. PREQ: 251 or permission of instructor. 2 Lecture, 2 Lab.

355 Television Production I.(3) Producing and directing various television programs and productions; emphasis on studio operations. PREQ: 251 or permission of instructor. 1 Lecture, 4 Lab.

358 Broadcast Announcing.(3) In-depth skills course in radio and television announcing and “on-camera” appearances; emphasis on development of the broadcast voice. PREQ: 250 and STA 311 or permission of instructor. 1 Lecture, 4 Lab.

445 Directing for the Camera.(3) The art of directing on-camera performances. PREQ: 355 and STA 245 or permission of instructor. 1 Lecture, 4 Lab.

453 Advanced Studies in Film and Television.(3) Continuation of 253; emphasis on technical analysis and sociological impact. PREQ: 253 or permission of instructor. 3 Lecture, 2 Lab.

454 Radio Production II.(3) Editing and related technical skills. PREQ: 354 or permission of instructor. 1 Lecture, 4 Lab.

455 Television Production II.(3) Continuation of 355; emphasis on field production, editing, and related technical/creative skills. PREQ: 355 or permission of instructor. 1 Lecture, 4 Lab.

456 Broadcast Operations.(3) Principles of management in radio, television, and cable at the local and network levels. PREQ: 250.

457 Radio and Television Programming.(3) Techniques of programming for AM, FM commercial and FM educational radio; educational and commercial television; cable and satellite operations. PREQ: 250.

458 Broadcast Sales and Promotion.(3) Introduction to the skills involved in selling broadcast time and broadcast promotions. PREQ: 250. 2 Lecture, 2 Lab.

459 Broadcast News.(3) Finding sources of information, developing interview techniques, and writing news for radio and television; emphasis on completing tasks under deadline conditions. PREQ: 301 or permission of instructor. 2 Lecture, 2 Lab.

460 Communications Ethics and Responsibilities.(3) The legal and moral responsibilities of communicators in the speech and broadcast areas. PREQ: 250 or permission of instructor.

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.
215 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 page 122.

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 comparison 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 Practicum in Teaching 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
503 Reading Conference I, II.(2,2) 661 Developmental Reading.(3)
513 672 Organization and Supervision of Reading Programs.(3)
520 Phonics and Word Analysis.(3) 676 Reading Workshop.(3)
533 Reading and Communication Skills.(3) 700 History and Psychology of Reading Instruction.(3)
543 Developmental Reading Instruction for the Middle Grades.(3) 710 Field Experience in Reading.(3)
553 High School and Adult Reading.(4) 720 Developing and Evaluating Reading Materials.(3)
573 Reading Diagnosis and Correction.(4) 740 Reading Research Projects.(3)
641 Investigations and Research in Teaching Reading.(3) 750 Reading: Communication and Language Structure.(3)
651 Clinical Procedures in Remedial Reading.(3) 780 Independent Study in Reading Education.(3)
660 Reading Programs in Two-Year Colleges.(3) 795 Advanced Seminar in Reading.(3)

Religion (REL)
103 (300) Man and the Sacred.(3)
Comparison of selected major world religions; examination of problems, including the existence and nature of deity, evil, and the meaning of religious experience and language.(P4)

104 The Biblical World.(3)
Major facets of the Biblical World—ethical, cultural, literary, and historical—and their impact on the Judeo-Christian tradition.(P5)

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

495 (HIST 495) Seminar in Science and Society.(2)  
The interaction between scientific and technological change and culture; examples from the prehistoric to the present.

Graduate Courses

551 Environmental Science for Teachers.(3)  
593 Topics in Science Education.(1-3,R6)  
594  
611 Physical and Earth Science for Teachers.(3)  
621 Biology and Environmental Science for Teachers.(3)  
695 Seminar in Science Education.(3,3)  
696

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.

313 Social Studies.(2)  
315 Mathematics.(2)  
316 Science.(2)  
318 Speech.(2)  
319 Drama.(2)  
320 Industrial Subjects.(3)

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.

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.

302 Violence and Abuse. (3)
The dynamics of interpersonal violence and abuse, including child abuse, sexual assault, and domestic violence; their incidence, related policies, treatment issues and services.

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 macrosystems 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 page 122.

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)
487 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.

314 Social Inequality. (3)
Social inequalities in wealth, income, prestige, and power; inequalities based on sex, age, and race.

326 Gender Roles and Society. (3)
Gender roles will be examined in a sociological context emphasizing the relationship between these roles and the pre-existing sexual stratification system.

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 are considered.

342 The Individual in Society. (3)
Individual behavior in social context; social interaction.

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: 3 hours in sociology.

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)
See page 122.

391 Sociological Theory. (3)
The development of sociological theory; issues in classical and contemporary social thought.

414 (ANTH 414) Minority Groups. (3)
Relations between dominant and subordinate races and ethnic groups; historical and comparative aspects; Blacks, Chicanos, and Indians.
223 (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.

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.

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.

448 Social Movements.(3)
Social movements and collective behavior; mass efforts to promote or resist social change; comparison of riots, reform movements, and revolutions.

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.

480 Independent Study in Sociology.(1-2,R6)
PREQ: Written application; permission of instructor and adviser.

483 Internship in Sociology.(3,3,3)
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.

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 I, II.(3,3)
322 Geographical, political, cultural, and historical aspects of Spain; course division at the 15th century. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

331 Survey of Spanish Literature I, II.(3,3)
332 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.

333 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.

335 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 page 122.

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.

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.

340 Math and Science for Mildly Handicapped K-12 Students.(3)
Math and science curricula for handicapped students; emphasis on assessment, goal development, program planning, implementation, and adaptation. PREQ: 240.

341 Language Arts for Mildly Handicapped K-12 Students.(3)
Curricula in oral language, reading, writing, and spelling; emphasis on assessment, goal development, program planning, implementation, and curricular adaptation. PREQ: 240.

389 Cooperative Education in Special Education.(1 or 3,R15)
See page 122.

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.

416 Professional Communication Skills for Educators.(2)
Working with parents, teachers, students, and others in a helping consultative relationship; skills for effective participation on interdisciplinary teams. PREQ: 240.

417 Behavioral Management of the Exceptional Child.(3)
Principles and techniques of management in the classroom.

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.
442 Living Skills for Mildly Handicapped K-12 Students. (2)
Career education, including personal-social and daily living skills, and study skills. PREQ: 240.

450 Individual Educational Plans for Students with Handicaps. (3)
Development of Individual Educational Plans (IEPs); formal and informal assessment and instructional planning; study of federal and state regulations. PREQ: 240.

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)
Theory related to practice during student teaching. COREQ: 490.

Graduate Courses
501 Introduction to Learning Disabilities. (3)
504 Educational Programs for Students with Behavioral Disorders. (3)
513 Teaching Adolescents with Learning Problems. (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)
604 Current Issues in Special Education. (3)
629 Educational Programs for Students with Mental Retardation. (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

Speech and Theatre Arts (STA)

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 (304) The Theatre Experience. (3)
Analysis of what theatre is about, what goes on in theatre, and what it means to be a viewer. (F3b)

110 (310) 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)

130 Makeup. (1)
Application of stage makeup.

131 Introduction to Theatre. (3)
Survey of theatre; its growth and impact on American culture.

132 Stagecraft. (4)
Techniques, materials, methods; set construction and painting; simple lighting. 3 Lecture, 2 Lab.

140 Acting I. (3)
Basics of acting.

232 Concept Creation. (3)
Formulation of concepts for theatrical production; the director-designer relationship; script analysis; aesthetics.

240 Acting II. (3)
Stage movement, vocal exercises; scene study. PREQ: 140.

245 Acting for the Camera I. (3)
The art of acting as it relates to the actor and the television/film environment. PREQ: 140 or permission of instructor. 2 Lecture, 2 Lab.

250 Introduction to Speech Communication. (3)
Basic principles of communication skills in interpersonal, small group, and public communication.

270 Communication Arts Workshop I. (1-3, R6)
Practical experience, performance, research in debate, forensics, film, television, radio, or theatre. PREQ: Permission of instructor. 3 Lab per credit hour.

300 Dramatic Literature and Criticism I, II. (3, 3)
Dramatic structure, interpretation, and evaluation of masterpieces, Greek to modern; course division at 1600.

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 Advanced Public Speaking. (3)
Special problems in speech communications; delivery. PREQ: 250.

315 Organizational and Industrial Communication. (3)
Channels of oral communication in complex organizations; organizational influences on communication.
316 Psychology of Speech.(3)
Psychological principles active in speech communication.

320 Oral Interpretation of Literature I.(3)
Principles of oral interpretation; literary analysis; practice in prose, poetry, drama.

321 Oral Interpretation of Literature II.(3)
Advanced techniques; analysis; practice; individual repertoire.

330 Scene Design I.(3)
Theory and techniques of scene design; rendering, perspective. PREQ: 132, 232.

335 Lighting Design I.(3)
Theory and techniques of stage lighting; drafting the light plot; script analysis; the director-designer relationship. PREQ: 132, 232.

338 Costume Design I.(3)
Theory and techniques of costume design; history of costume; rendering. PREQ: 232.

340 Acting III.(3)
Acting theories; characterization. PREQ: 240.

345 Acting for the Camera II.(3)
PREQ: 245 or permission of instructor. 1 Lecture, 4 Lab.

350 Directing I.(3)
Basic techniques; student direction of scenes. PREQ: 132, 140, 232.

351 Directing II.(3)
Advanced production problems; student direction of a one-act play. PREQ: 350.

370 Communication Arts Workshop II.(1-3,R6)
Continuation of 270. PREQ: Permission of instructor. 3 Lab per credit hour.

371 Children's Theatre Tour.(3,R6)
Participation in annual Spring Theatre Tour to elementary schools; minimum of 12 days of touring. PREQ: Permission of instructor.

389 Cooperative Education in STA.(1 or 3,R15)
See page 122.

400 History of the Theatre I, II.(3,3)
401 Conditions under which great plays have been produced from Greeks to the present; course division at 1600.

410 Theory of Communication.(3)
Analysis of communication models, general semantics; field research.

411 Rhetorical Theory and Criticism.(3)
Ancient and modern concepts and theories; application to rhetorical acts.

412 History of Public Address I, II.(3,3)
413 Survey of theories and techniques from the Greeks to the present; course division at 19th century.

420 Readers Theatre.(3)
Preparing and presenting a group recital; development of a theme adapting prose, poetry, drama. PREQ: 320.

430 Scene Design II.(3)
Advanced theory and techniques of scene design; technical drawing; models; rendering. PREQ: 330.
435 Lighting Design II.(3)
Advanced problems in stage lighting; nonproscenium lighting special effects. PREQ: 335.

438 Costume Design II.(3)
Advanced theory and techniques of costume design; production design; rendering. PREQ: 338.

440 Creative Dramatics.(3)
The use of creative drama in grades K-12; survey of children's literature.

441 Acting IV.(3)
Period and style. PREQ: 340 or permission of instructor.

450 Directing III.(3)
Problems in directing period plays. PREQ: 351.

451 Directing IV.(3)
Directing a major production. PREQ: Permission of theatre faculty.

470 Design III.(3)
Set, lighting, or costume design for a major production. PREQ: Permission of the instructor.

483 Internship in Speech and Theatre Arts.(3,R9)
Work experience in a broadcast, communication, or performing arts facility. S/U grading. PREQ: 2.00 GPA, permission of department head. 9 hours per 3-hour course.

486 Theatre Production.(3,R12)
Intensive training in performance and/or technical theatre. PREQ: Permission of instructor or admission to the BFA program. Meetings as arranged.

495 STA Seminar.(3,R15)

499 BFA Thesis.(2)

Graduate Courses
586 Theatre Production.(3)

595 STA Seminar.(3)

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: EH 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 Page 122.
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.

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.

484  Internship In Sport Management. (6,6)
485  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.

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, programming, 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 page 122.

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)
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.

Graduate Course
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 high school 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 N.C. 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 eighteenth 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 N.C. General Assembly began sponsoring additional institutions of higher education, diverse in origin and purpose. Five were historically black 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 N.C. 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 high school 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 N.C. 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.

BOARD OF GOVERNORS

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C. C. Cameron ................................................................ Charlotte
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 were climaxed in 1951 by 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.

BOARD OF TRUSTEES

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Orville D. Coward, Vice Chairman ............................................................ Sylva
Alan Allman, Secretary ........................................................................ Penrose

Terms Expiring in 1993
Charles E. Cagle .................................................................................... Sylva
Orville D. Coward ................................................................................ Sylva
William F. Forsyth .............................................................................. Murphy
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Charles Pine .......................................................................................... Asheville
Kenneth F. Wilson ................................................................................ Waynevile

Terms Expiring in 1995
Levern H. Allen ..................................................................................... Silver Spring, Md
Alan Allman ........................................................................................ Penrose
Mollie G. Blankenship .......................................................................... Cherokee
R. Scott Lindsay ................................................................................ Murphy
Jim L. Moore ....................................................................................... Sylva
Stephen W. Woody .............................................................................. Asheville

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John Connet .......................................................................................... Statesville

ADMINISTRATIVE OFFICERS

1991-92
Office of the Chancellor
Myron L. Coulter, Ed.D. ................................................................. 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
Bobby N. Setzer, M.Ed. ................................................................. Director of Athletics
Frederick Q. Cantler, B.S. ...................................................... Associate Director of Athletics
Steven F. Hodglin, 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
Janet Cone .............................................................. Women's Basketball Coach; Assistant Athletic Director for Student Services
Jana Kay Williams, 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 Holthouser, B.S. .............................................................. Head Football Coach
Gregory G. Blatt, M.S. .............................................................. Assistant Basketball Coach
Ricky Leon Edmond, B.S. .............................................................. Assistant Basketball Coach
Keith Walker, B.S. .............................................................. 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

Office of Public Information
A. Douglas Reed, A.B. ................................................................. Director
James W. Rowell, B.A. .............................................................. Associate Director
Christin M. McCarley, M.A. ...................................................... Assistant Director for Publications

Office for University Advancement
Charles M. Ambrose, Ed.D. .................................................. Assistant to the Chancellor
Thomas Bommer, B.S. .............................................................. Assistant Director, University Development
A. James Manring, M.B.A. ...................................................... Director, Annual Fund
Philip M. Cauley, M.A. .............................................................. Director, Alumni Affairs

Office for Academic Affairs
John H. Wakeley, Ph.D. ............................................................. Vice-Chancellor
Judith M. Stillion, Ph.D. .............................................................. Associate Vice-Chancellor
Michael E. Malone, Ph.D. .............................................................. Assistant Vice-Chancellor
Ann Deupree, M.S. .............................................................. Assistant to the Vice-Chancellor

Academic Officers
Gurney E. Chambers, Ph.D. ............................................................. Dean, School of Education and Psychology
Anthony A. Hickey, Ph.D. ............................................................. Dean, Research and Graduate Studies
Clifford R. Lovin, Ph.D. .............................................................. Dean, School of Arts and Sciences
John F. McCreary, Ed.D. .............................................................. Dean, School of Business
J. Dale Pounds, M.S.C.E. .............................................................. Dean, School of Applied Sciences
Marilyn E. Feldmann, Ph.D. ...........Associate Dean, School of Education and Psychology
J.C. Alexander, Jr., Ph.D. ...........Associate Dean, School of Arts and Sciences
Noelle Kehrberg, Ph.D. .......... Associate Dean, School of Applied Sciences
Steven P. Yurkovich, Ph.D. ........... Associate Dean, Research and Graduate Studies

**Academic Development**

Fred Donald Hinson, Ph.D. ....................Director, General Education Program
William Christian Martin III, M.A. Ed. ............Director, Media Center
Anne Frazer Rogers, Ph.D. ....................Director, Honors Program
Benjamin Franklin Ward, A.M. ............. Director, Faculty Center for Teaching Excellence

**Office of Academic Services**

Drumont I. Bowman, M.A. ..................Associate Director of Academic Services,
                      Director of Admissions
Susan Clark Smith, A.B. ......................... Director of Retention Services
John C. Deupree, M.Ed. .......................Registrar
Katherine M. Hill, M.Ed. ...............Project Director and Coordinator, Transfer Programs
Marion R. Sparks, B.S. ........ Assistant Director, Admissions
J. Gregory Johnson, B.A. ..................Assistant Director, Admissions
Angela Reeves, B.A. .........................Assistant Director, Admissions
Anita D. Howell, B.S. .........................Assistant Director, Admissions

**Office of Institutional Studies and Planning**

Kenneth L. Wood, M.Ed. ..................Director
Cecil C. Brooks, M.S. ....................Associate Director, University Reports
Robert W. Anders, M.A. ..................Director, Computer Center

**Career and Academic Planning Center**

Raymond S. Ledford, M.S.W. .................Director
Lawrence Bixby, M.Ed. ....................Assistant Director
Susie Ray, M.A. ..................Director of Cooperative Education and Placement

**Program Administration**

Linda S. Bowers, M.S. ..................Acting Director, Speech and Hearing Center
William A. Clauss, Ph.D. ..................Director, Office for Rural Education
J. Ralph Devane, Ed.D. ..................Director, Center for Mathematics and Science Education
Burton B. Fox, Ed.D. ..................Director, Caribbean and Latin American Programs
Diana M. Henshaw, Ed.D. ..................Dean, Continuing Education and Summer School
William J. Kirwan, M.S.L.S. .............University Librarian
Malcolm Loughlin ..................Associate Dean, Continuing Education and Summer School
William Christian Martin III, M.A. Ed. ............Director, Media Center
Patricia L. Miller, M.A.Ed. ............Coordinator, Evening Programs in Asheville
Hoyt Ponder, Ph.D. ......................Director, Developmental Evaluation Center
G. Ian Pritchard, Ph.D. ...........Director, Mountain Aquaculture Research Center
Richard L. Thompson, Ed.D. ........... Director, Center for the Advancement of Teaching

**Office for Business Affairs**

C. Joseph Carter, Ph.D. ....................Vice Chancellor
George W. Wooten, M.A. ..................Assistant Vice-Chancellor; Controller
Jonathan D. Ehrlich .......................University Budget Officer;
                        Assistant to the Vice Chancellor
James W. Culp, M.B.A. ..................Director, Physical Plant
Raymond R. Nicholson, B.A. .......................................................... Manager, Book and Supply Store
James R. Holland, A.B. ................................................................. Personnel Officer
John C. McCracken, M.A.Ed. ....................................................... Director, Auxiliary Services
Arthur Stephens, B.S. ................................................................. Director, Purchasing
Robert T. Edwards, B.S.B.A. ....................................................... Internal Auditor
Margaret Raper ................................................................. Manager, Auxiliary Food Services
Cecil C. Ward ................................................................. Manager, Cafeteria Services
Arthur E. McAbee .......................................................... Director, Office of Public Safety
Robert J. Stewart, M.A.Ed. ........................................................ Director, Ramsey Regional Activity Center

Office for University Services
James E. Dooley, Ph.D. .......................................................... Vice-Chancellor
Lawrence H. Arney, Ed.D. .................................................. Director, Western Carolina University Center in Cherokee
Ellerd M. Hulbert, Ph.D. .......................................................... Director, International Development

Center for Improving Mountain Living
Robert Gurevich, Ph.D. .................................................. Director
Ralph Montee, M.A. .................................................. Associate Director, International Programs
Monica Hinton, M.P.H. .................................................. Associate Director, Human Resources
Thomas E. McClure, J.D. .................................................. Associate Director, Economic Development
Susan M. Smith, Ed.D. .................................................. Associate Director, Natural Resources
Edgar P. Israel, B.S.Ed. .................................................. Director, Western North Carolina Tomorrow

Mountain Heritage Center
H. Tyler Blethen, Ph.D. .................................................. Director
John A. Davidson, Jr., M.A. ................................................ Curator
David W. Brewin, M.A.Ed. ................................................ Museum Specialist

Office for Student Development
Glenn W. Stillion, Ph.D. .................................................. Vice-Chancellor
W. Douglas Davis, Ed.D. ................................................ Assistant Vice-Chancellor
Bonita Jacobs, Ph.D. ................................................ Dean, Student Development
Richard Cameron, M.Ed. ................................................ Associate Dean, Student Activities
Jennifer Williams, M.S. ................................................ Assistant to the Vice-Chancellor
R. Randy Rice, M.S. ................................................ Director, Housing
W. Glenn Hardesty, M.A. ................................................ Director, Financial Aid
Timothy C. Jacobs, M.Ed. ................................................ Director, University Center
Donald O’Neal, M.D. ................................................ Director, University Health Services
John R. Ritchie, Ph.D. ................................................ Director, Counseling Center

North Carolina Center for the Advancement of Teaching
Richard L. Thompson, Ed.D. ................................................ Director
Kay Shapiro, Ed.S. ................................................ Assistant Director
Judith E. Clauss, Ph.D. ................................................ Fellow
Jerome Franson, Ph.D. ................................................ Fellow
Shelley L. Olson, Ph.D. ................................................ Fellow
Anthony G. Rud, Jr., Ph.D. ................................................ Senior Fellow
Christine M. Shea, Ph.D. ................................................ Fellow
Ada E. Sher, Ed.D. ................................................ Fellow
Daniel D. Fredricks, Ph.D. ................................................ Fellow
Neill Clark III, Ph.D. ................................................ Fellow
FACULTY
1991-92

*Myron L. Coulter, Ed.D.
Chancellor; Professor of Education. B.S.,
Indiana State Teachers College, 1951; M.S.,
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; Pro-
fessor of Psychology. A.B., College of
Wooster, 1954; M.S., North Carolina State
University at Raleigh, 1958; Ph.D., Michi-
gan State University, 1961. Date of appoint-

*John Russell Adams, Ph.D.
Professor of Management. B.S., University
of New Hampshire, 1959; M.S., Florida State
University, 1969; Ph.D., Syracuse University,

*Maynard Francis Adams, Ed.D.
Professor of Industrial and Engineering
Technology. B.S., M.A., Ed.D., North
Carolina State University at Raleigh, 1961,

*Eva Jacqueline Adcock, Ph.D.
Associate Professor of Music. B.A., University
of California, Berkeley, 1946; M.M.Ed.,
Ph.D., Florida State University, 1968, 1970.
Date of appointment, 1970.

**Elizabeth H. Addison, Ph.D.
Instructor of English. B.A., Transylvania
College, 1968; M.A., University of Tennes-
see, 1975; Ph.D., Duke University, 1985.
Date of appointment, 1990.

*James Clyde Addison, Ph.D.
Associate Professor of English. B.A., M.A.,
Clemson University, 1969, 1975; Ph.D.,
University of Tennessee, 1980. Date of
appointment, 1979.

*Joseph Culbreth Alexander, Jr., Ph.D.
Associate Dean, School of Arts and Sci-
ces; Associate Professor of Speech and
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1956, 1959; M.A., Ph.D., Ohio University,

*Davila Messey Allen, Ph.D.
Associate Professor and Head, Department
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Western Carolina University, 1966;
M.S.H.E., University of North Carolina at
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* Member of the Graduate Faculty
** On leave
** Part-time appointment

Grace C. Allen, Ph.D.
Assistant Professor of Finance. B.S., Agnes
Scott College, 1978; M.B.A., Appalachian
State University, 1985; Ph.D., University of
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Thomas J. Allison, B.S.
Captain, U.S. Army; Assistant Professor of
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University, 1981. Date of appointment, 1990.

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Instructor of English. A.B.J., University of
Georgia, 1976; M.A.J.C., University of

**Nina L. Anderson, M.A.Ed.
Lecturer of English. B.S.Ed., M.A.Ed.,
Western Carolina University, 1969, 1971.
Date of appointment, 1991.

*William Louis Anderson, Ph.D.
Professor of History. B.A., M.A., Ph.D.,
Date of appointment, 1969.

*Lawrence Hinkle Arney, Ed.D.
Director, Western Carolina University Cen-
ter in Cherokee; Associate Professor of
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University, 1951; M.Ed., University of North
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versity of Florida, 1969. Date of appoint-
ment, 1970.

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tary Institute, 1961; M.S.E.E., Georgia Insti-
tute of Technology, 1967. Date of appoint-
ment, 1990.

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Assistant Professor of Communication and
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Date of appointment, 1985.
*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.

Joyce Anne Baldwin, M.S.H.E.

*Aaron Kermit Ball, Ed.D.

**Bernard G. Ball, Jr., A.D.N.

Abdulkader O. Barbir, Ph.D.

Paul Basler, D.M.A.

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Professor of Chemistry. B.S., Ph.D., University of North Carolina at Chapel Hill, 1951, 1958. Date of appointment, 1964.

Mary Kay Bauer-Waters, D.M.A.
Assistant Professor of Music. B.M., Catholic University, 1980; M.M., Northwestern University, 1983; D.M.A., University of Minnesota, 1989. Date of appointment, 1988.

Richard Squires Beam, Ph.D.

*Macle Eugene Beaver, Ed.D.

*John Alan Beegle, Ph.D.

*John Luther Bell, Jr., Ph.D.

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*Harold Tyler Blethen III, Ph.D.
Director, Mountain Heritage Center; Professor of History. A.B., Bowdoin College, 1967; M.A., Ph.D., University of North Carolina at Chapel Hill, 1969, 1972. Date of appointment, 1972.

Lisa A. Bloom, Ed.D.

Richard A. Borge, M.F.A.

Drumont Irvin Bowman, M.A.

William L. Boyd, Ph.D.
Richard Lewis Boyer, M.F.A.

**Douglas Bridges, M.A.

Susan Clare Brown, Ph.D.

Wesley Brown, B.S.
Captain, U.S. Army; Assistant Professor of Military Science. B.S., South Carolina State University, 1978. Date of appointment, 1985.

*Richard Conrad Bruce, Ph.D.
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*James Garlin Bryant, Jr., Ed.D.

Alice Buchanan, M.A.Ed.

*Bill Buchanan, M.F.A.

**Robert E. Buckner, B.S.Ed.

*Lee Palmer Budhal, Ph.D.

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.

*James Edwin Byer, Ph.D.

**Kathryn Stripling Byer, M.F.A.

*Joan Falconer Byrd, M.F.A.

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*Barbara Hortense Capps, Ed.D.

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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. Date of appointment, 1982.

*JoAnn Crook Carland, Ph.D.

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*Calvin Dale Carpenter, Ed.D.

Wilbert M. Carr, Jr., M.B.A.
Captain, U.S. Army; Assistant Professor of Military Science, B.S., Mississippi State University, 1971; M.B.A., Delta State University, 1986. Date of appointment, 1987.

Timothy V. Carstens, M.L.S.
Assistant Professor, Hunter Library. A.B., Colby College, 1982; M.L.S., Rutgers University, 1984. Date of appointment, 1990.

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Ann Alsop Chambers, Ed.S.

*Gurney Ernest Chambers, Ph.D.
Dean, School of Education and Psychology; Professor of Education. B.S., Western Carolina University, 1961; M.A., Ph.D., George Peabody College for Teachers, 1963, 1967. Date of appointment, 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. Date of appointment, 1969.

**Katherine A. Claprano, M.A

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*Lewis Edward Cloud, Ed.D.

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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.

*Thomas Francis Connelly, Jr., Ed.D.

*Jerry Lee Cook, Ed.D.

Norma Brake Cook, M.T.
Assistant 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 Human Environmental Sciences. B.S., M.S., University of Alabama, 1967, 1969; Ph.D., Kansas State University, 1972. Date of appointment, 1977.

*Frederick Alexander Coyle, Ph.D.

*Richard Scott Craddock, Ed.D.

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Raymond G. Crepeau, M.B.A.

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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.

*William Douglas Davis, Ed.D.
Assistant Vice-Chancellor for Student Development; Associate Professor of Education. B.S., Western Carolina University, 1949; M.A., Ed.D., Columbia University, 1950, 1963. Date of appointment, 1966.

**Gail K. Debnam, B.A.

**Lidia Del Piccolo-Morris, B.A.

Mary Diane Deck, Ph.D.
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Vivian Lundy Deltz, Ph.D.

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Associate Professor of Elementary Education. B.S.Ed., M.S., Kansas State Teachers College, 1960, 1962; Ed.D., North Texas State University, 1970. Date of appointment, 1970.

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.

Rebecca Dewees Dennis, B.S.N.
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George W. DeSain, Ed.D.
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*James Ralph DeVane, Ed.D.
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**Gerri Lynn Dobbins, M.A.

*James Michael Dolan, Ph.D.

*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.

David Dorondo, D.Phil.

Lorna Blitgood Dorr, M.L.S.

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*Bobbye J. Dunlap, D.B.A.

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Samuel C. Dyer, Ph.D.
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Ralph Stephens Eberly, Ph.D.

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**Burton B. Fox, Ed.D.

*Judith A. Franson, Ph.D.
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Christine Bergner Friesner, M.Ed.

Jerry Leigh Friesner, M.Ed.

Mario A. Gaetano, D.M.A.

Thomas Clark Gamble, Ph.D.

**Carolyn Stoll Gelster, M.N.Ed.

**Carolyn Stoll Gelster, M.N.Ed.

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*Albert Franklin Gilman III, Ph.D.

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*Robert Godfrey, M.F.A.
Paul Milton Gold, M.A.

John D. Gould, M.B.A.

Gael N. Graham, Ph.D.
Assistant Professor of History. B.A., University of California, Santa Cruz, 1980; M.A., Ph.D., University of Michigan, 1985, 1990. Date of appointment, 1990.

*Larry Bertram Grantham, Jr., Ph.D.

*Cathryn Griffin, M.F.A.

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Paul Mallory Haberland, Ph.D.

William F. Hafner, M.S.L.S.

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Larry C. Harmon, M.A.

*Frederick Williams Harrison, Ph.D.

*Wilburn Hayden, Jr., Ph.D.
Associate Professor and Head, Department of Social Work and Sociology. B.A., St. Andrews Presbyterian College, 1971; M.S.W., University of North Carolina at Chapel Hill, 1973; University of Toronto, 1991. Date of appointment, 1983.

Richard Morrill Haynes, Ph.D.
Director of Field Experiences and Teacher Placement, Assistant Professor of Administration, Curriculum and Instruction. B.S., Florida Southern College, 1967; M.S., Rollins College, 1970; Ph.D., Duke University, 1978. Date of appointment, 1988.

*Patrick Allen Hays, Ph.D.
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Paul Heckert, Ph.D.

Lynn Ruth Heirlrich, Ed.D.

Denise Heinze, Ph.D.

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