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

For information concerning affirmative action policies and procedures, contact the Affirmative Action Officer, 530 H F Robinson Administration Building, Western Carolina University, Cullowhee, North Carolina 28723, telephone (704) 227-7116.

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

Copies of the appropriate issues are made available to all students registered at the university, high school principals and guidance counselors, college and university libraries, and all public and private high schools and institutions of higher learning in North Carolina. Additional copies are available from the Office of Admissions, Western Carolina University, Cullowhee, North Carolina 28723, telephone (704) 227-7317.

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THE WESTERN CAROLINA UNIVERSITY RECORD

Vol LXXII No 1 April 1996

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ACADEMIC CALENDAR

Fall Semester 1996

August 15, Thursday, 3-6 p.m
August 16, Friday, 8 a.m
August 18, Sunday, 8 a.m
August 18, Sunday, 9 a.m - 6 p.m
August 19, Monday
August 19, Monday, 4:30 p.m
August 19-23, Monday-Friday

August 30 - September 2,
Friday, 5 p.m - Monday
September 3, Tuesday, 8 a.m
October 7-8, Monday-Tuesday
October 9, Wednesday, 8 a.m
October 11, Friday
October 21, Monday

October 21- November 8,
Monday-Friday
November 27- December 1,
Wednesday, 2 p.m - Sunday
December 2, Monday, 8 a.m
December 4, Wednesday
December 5, Thursday
December 6-12, Friday-Thursday
(To Be Announced)
December 13, Friday

Spring Semester 1997

January 9, Thursday, 3-6 p.m
January 12, Sunday
January 13, Monday
January 13, Monday, 9 a.m - 4 p.m
January 13, Monday, 6 p.m
January 14, Tuesday
January 14-17, Tuesday-Friday

January 20, Monday
March 7, Friday
March 10-16
March 17, Monday, 8 a.m
March 17, Monday

March 24-April 11
March 28-30, Friday, 8 a.m - Sunday

Registration in Asheville
Residence halls open for students attending
freshmen and transfer orientation
Residence halls open for all students
Registration in Cullowhee
All classes begin
Freshman Convocation
Late registration and schedule changes in
Cullowhee
Labor Day holiday

Classes resume
Fall holiday
Classes resume
Last day to drop a course with a W.
Last day for students completing programs in
May to file degree application in the deans'
offices
Academic advising for spring semester and
early registration in Cullowhee
Thanksgiving holiday

Classes resume
Last day of classes
Reading day
Final examinations
Commencement
Christmas holiday begins

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

1A late registration fee of $10 will be charged
March 31, Monday, 8 a.m.
May 2, Friday
May 3-9, Saturday-Friday.
May 10, Saturday
Classes resume

March 31, Monday, 8 a.m.
May 2, Friday
May 3-9, Saturday-Friday.
May 10, Saturday
Classes resume

Summer Term 1997 (Subject to Change)

May 22, Thursday, 3-6
May 26, Monday, 9-12
May 26, Monday-August 1, Friday
May 28, Wednesday-July 1, Tuesday
July 2, Wednesday-August 1, Friday
August 1, Friday
Registration in Asheville
Registration in Cullowhee
Summer session (ten-week session)
First summer session
Second summer session
Commencement

Fall Semester 1997 (Subject to Change)

August 14, Thursday, 3-6 p.m.
August 15, Friday, 8 a.m.
August 16, Saturday, 9 a.m.
August 18, Monday
August 18, Monday, 4:30 p.m.
August 18-22, Monday-Friday
August 29-September 1, 1997
September 2, Tuesday, 8 a.m.
October 13-14, Monday-Tuesday
October 8, Wednesday, 8 a.m.
October 10, Monday
October 20, Monday
November 20-December 1, Monday-Friday
December 1, Monday, 8 a.m.
December 4, Thursday
December 5, Friday
December 6-12, Saturday-Friday
(To Be Announced)
December 13, Saturday
Registration in Asheville
Residence halls open for freshman and transfer students attending orientation
Residence halls open for all students
Registration in Cullowhee
All classes begin
Freshman Convocation
Late registration and schedule changes in Cullowhee
Labor Day holiday

Classes resume
Fall holiday
Classes resume
Last day to drop a course with a W
Last day for students completing programs in May to file degree application in the deans' offices
Academic advising for spring semester and early registration in Cullowhee
Thanksgiving holiday

Classes resume
Last day of classes
Reading day
Final examinations
Commencement
Christmas holiday begins
Spring Semester 1998 (Subject to change)

January 8, Thursday, 3-6 p.m. Registration in Asheville
January 11, Sunday Residence halls open for new students, Orientation for new students
January 12, Monday Classes in Asheville begin
January 12, Monday, 9 a.m. - 4 p.m. Registration in Cullowhee
January 12, Monday, 6 p.m. Evening classes in Cullowhee begin
January 13, Tuesday Day classes in Cullowhee begin
January 13-16, Tuesday-Friday Late registration and schedule changes in Cullowhee
January 19, Monday Martin Luther King, Jr. Birthday holiday
March 6, Friday Last day to drop a course with a W.
March 9-15, Monday-Sunday Spring holiday
March 16, Monday Classes resume
March 16, Monday, 8 a.m. Deadline for students completing programs in summer or fall to file degree applications in deans' offices
March 23-April 10 Academic advising for summer and fall semester and early registration in Cullowhee
Monday-Friday Easter holiday
April 3-5, Friday, 8 a.m. - Sunday Classes resume
April 13, Monday, 8 a.m. Last day of classes
May 1, Friday Final examinations
May 2-8, Saturday-Friday Commencement
May 9, Saturday

TELEPHONE NUMBERS

Area Code 704

Academic Advising 227-7170
Academic Affairs Office 227-7495
Admissions, Readmissions 227-7317
Book Store 227-7346
Career Services 227-7133
Employment, Student 227-7134
Fees 227-7334
Financial Aid, Loans, Scholarships 227-7290
Food Services 227-7396
Fraternities, Sororities, Clubs 227-7234
General Student Information 227-7234
Housing 227-7303
International Students 227-7234
Orientation 227-7234
Registrar, Student Records, Transcripts 227-7232
Schools
College of Applied Sciences 227-7272
College of Arts and Sciences 227-7646
College of Business 227-7401
College of Education and Psychology 227-7311
Graduate School 227-7398
Veterans Affairs 227-7234
THE UNIVERSITY

Western Carolina University is one of the sixteen public senior institutions of the University of North Carolina. It is a comprehensive university, authorized to offer programs of study at the baccalaureate, master's, intermediate, and doctoral level. The university comprises four undergraduate colleges—Applied Sciences, Arts and Sciences, Business, and Education and Allied Professions—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 foster 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. To this end, the university is committed to the preservation of small classes taught by fully qualified faculty and to maintaining a climate in which teaching is valued and excellence in teaching is the norm. Excellence in teaching is also sustained through a series of on-going university and state-wide programs which promote faculty knowledge and interaction concerning post-secondary teaching. Students are expected to take active responsibility for their 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 in the perspectives included in general education, competent in critical thinking, logical reasoning, and in communication and research 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. The university encourages and supports service that extends the benefits of scholarship and the principle of lifelong learning to the people in the western region of North Carolina as well as to regional, state, national, and international constituencies. The university encourages and supports research and creative activity 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 is offered primarily in Cullowhee where creative teaching by a caring faculty in a residential setting creates an environment conducive to learning. In addition, 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.

The university's commitment to excellence in education at all levels is evident in its rich history of university-wide cooperation in the preparation of effective elementary and secondary school personnel, its establishment of partnerships with surrounding public school systems, its research and service activities within the educational community, and its selection as the host site for the North Carolina Center for the Advancement of Teaching.

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

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 335 serves a student body of almost 6,700 in resident-credit and extension classes.

The Cullowhee campus is in a rural valley between the Blue Ridge and Great Smoky mountains, fifty-two miles west of Asheville and seven miles south of Sylva on North Carolina Highway 107. The location at the southern end of Cullowhee valley in the heart of the Tuckasegee River basin gives it an unusually attractive setting. The closest airport to the university is located in Asheville and 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 265 acres, including beautifully wooded areas and modern academic, student residence, recreation, and athletic facilities. The Blue Ridge Parkway, Great Smoky Mountains National Park, Cherokee Indian Reservation, Fontana Lake, and numerous resort areas offer golf, skiing, fishing, hunting, hiking, water sports, and other recreational opportunities nearby.

Governance

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

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

Accreditation

Western Carolina University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award degrees at the baccalaureate, master's, and specialist levels. In addition to this institutional accreditation, other special accreditation by appropriate agencies includes:

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

The university is a member of appropriate state and national associations and organizations to which its professional programs are related. These include, but are not limited to:
Academy of Criminal Justice Sciences
American Association of Colleges for Teacher Education
American Association of Colleges of Nursing
American Association of Higher Education
American Association of State Colleges and Universities
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
Cooperative Education Association
Council of Graduate Schools in the United States
Institute for International Education, Inc
International Council for Small Business
National Association of Student Financial Aid Administrators
National Business Education Association
National University Continuing Education Association
North American Association of Summer Sessions
North Carolina Academy of Science
North Carolina Association of Colleges and Universities
North Carolina Bar Association
North Carolina Criminal Justice Education and Training Standards Commission
Southeastern Theatre Conference
Southern Atlantic States Association for Asian and African Studies
Southern Regional Education Board
Southern States Communication Association
Speech Communication Association
United States Distance Learning Association
United States Institute for Theatre Technology

Academic Program

A varied academic program is offered by the university’s four colleges. Through the Graduate School, the university offers graduate degree programs in numerous major areas leading to the Master of Arts, Master of Arts in Education, Master of Business Administration, Master of Health Sciences, Master of Music Education, Master of Physical Therapy (beginning Fall 1996), Master of Project Management, Master of Public Affairs, Master of School Administration, Master of Science, the Education Specialist (on inactive status), the Certificate of Advanced Study in Counseling (on inactive status), and the Doctor in Education (beginning Fall 1996). The programs leading to these degrees are listed in the Graduate School section of this catalog, and complete information about them is available in the Graduate Catalog Issue of The Record.
The four undergraduate colleges of the university offer programs leading to the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Business Administration, and Bachelor of Science in Education


The College of Arts and Sciences. Bachelor of Arts with majors in Anthropology, Art, Chemistry, English, French, Geology, German, History, Music, Philosophy, Political Science, Social Sciences; Sociology, Spanish, Speech and Theatre Arts, and Special Studies

Bachelor of Fine Arts with majors in Art and in Theatre

Bachelor of Science with majors in Anthropology, Biology, Chemistry, Communication, Computer Science, Geography, Geography/Planning, Geology, History, Industrial Chemistry, Mathematics, Natural Resources Management, Physics, Political Science, Social Sciences, Social Work, Sociology, and Special Studies

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

The College of Education and Allied Professions. Bachelor of Science in Education with majors in Communication Disorders, Elementary Education, General Special Education, Middle Grades Education, and Physical Education

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

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

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

Bachelor of Science with majors in Psychology, Sport Management, Recreational Therapy, 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, the second summer session, and beginning Fall 1996 in December.

Western Carolina University Programs in Asheville

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

All of the course requirements for master's degrees in business administration, elementary education, English education, middle-grades education, health sciences, reading, counseling, human resource development, mathematics education, general special education (with concentrations in behavioral disorders, learning disabilities, and mental retardation), public affairs, social science education, school administration, and school supervision are offered by the university. The Education Specialist degree is offered in selected areas, including options which lead to recommendation for advanced certificates for principals, 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 business education, English, history, home economics, technology, mathematics, music education, physical education, project management, psychology, and science education are also available. WCU programs in Asheville are affiliated with the Asheville Graduate Center.

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

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

Western Carolina University Center in Cherokee

The Western Carolina University Center in Cherokee was established in 1975 in cooperation with the tribal government of the Eastern Band of the Cherokee Indians. The program at this resident-credit center serves Cherokee and the surrounding communities and is available to all of the people of the region. Offices of the center are located in Cherokee, (704) 497-7920, across from the Cherokee High School, and in the administration building at Cullowhee, (704) 227-7151.

Hunter Library

The library contains more than 520,000 books and bound periodical volumes, and one million units of microform. Approximately 2,400 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 180,000 government documents and adds important items monthly. Of special interest is the North Carolina Documents Collection which houses publications generated by the state government.

Hunter Library is also a depository for maps published by the United States Geological Survey, Defense Mapping Agency, and other federal agencies. The map room collection contains more than 110,000 sheet maps, over 500 atlases, and a small reference collection.
The Special Collections unit of Hunter Library maintains manuscripts collections, books, photographs, and other resources documenting the history of western North Carolina and Southern Appalachia, the history of the Cherokee Indians, literary works and papers of authors residing in or native to western North Carolina, the behavior of spiders, and the history of Western Carolina University.

As a service for professional education programs, a curriculum materials center is maintained that contains the state-adopted textbooks for North Carolina, curriculum guides, children's literature, media, and manipulatives suitable for classroom use.

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

The library also provides access to online indexes, Infotrac, First Search, Uncover, Chemical Abstracts, and Mathematical Reviews. In addition, the library offers the following CD-ROM bibliographic services: Compact Disclosure, MLA, PsycLit, Sport Discus, ERIC, Biography and Genealogy Master Index, and GPO.

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

Service and Research Centers

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

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

Mountain Resource Center. The Mountain Resource Center (MRC) is a major technical assistance and service unit of Western Carolina University that extends the resources of the university beyond the campus. MRC 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, MRC serves as a catalyst for economic and social development in western North Carolina, the state, and the world. The center provides assistance for town, county, and state government, business and industry, educational and social agencies, chambers of commerce, citizens groups, civic clubs, voluntary and nonprofit organizations, and other special-purpose groups. MRC serves as the home for Western North Carolina Tomorrow (WNCT), a regional citizen-leadership organization, the Western regional office of the North Carolina Small Business and Technology Development Center, and a federal Economic Development Administration University Center. MRC encourages faculty and student involvement in its program activity, especially in the areas of economic development, human resources, natural resources, and international technical assistance and services.

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

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

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

**University Writing Center.** A staff of faculty, graduate assistants, and peer tutors is available to assist students in developing skills for preparing essays, term papers, creative writing projects, articles for publication, and other purposes. Faculty members are encouraged to refer students to the center for general development of writing skills.

Beginning with the writer's initial ideas, tutors can help with brainstorming, prewriting, drafting, revising, editing, and proofreading. By offering the writer workable strategies, the tutors can move the student toward self-sufficiency. In addition to the one-on-one tutorial help, the center regularly offers minicourses or workshops tailored to specific courses that emphasize writing and 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. The Resource Center has a small library of supplementary materials, including textbooks, computer-assisted instruction materials, and a few current periodicals in mathematics and computer science.

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

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

**Highlands Biological Station** The Highlands Biological Station is a regional field station where senior scientists and graduate students conduct research on the environments of the southern Appalachians. Located at Highlands, on a high plateau of the Blue Ridge Mountains south of Cullowhee, the station is administered by Western Carolina University. An interinstitutional facility of the University of North Carolina, it is partially supported by 24 southeastern universities.
Mountain Aquaculture Research Center. The center was established within the College of Arts and Sciences at WCU in 1988. Its mandate is to foster biotechnologically based research to support the economic sustainability of the aquaculture industry in western North Carolina. Research activities of the center are of both a basic and an applied nature. They are conducted in collaboration with faculty and students in the Departments of Biology and Chemistry and Physics, with the North Carolina Cooperative Extension Service, and with the commercial trout industry. Areas of research interest include culture characteristics of all-female and/or triploid rainbow and brook trout, identification of biochemical measures and DNA markers associated with sex, stress and disease resistance, and other genetic traits of commercial interest, and monitoring impact and control of fish farm effluents.

Center for Environmental and Energy Education. The Western Carolina University Center for Environmental and Energy Education is one of several similar centers in a Tennessee Valley Authority-university network. The center identifies and coordinates the resources of this region in providing educational services addressing population, natural resources, and environmental changes.

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

Office for Rural Education. The Office for Rural Education in the College of Education and Allied Professions 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 is responsible for providing, within the context of the WCU mission statement, the highest quality of computer information services to the campus community that allocated resources will allow. These services provide computing resources where students, faculty members, administrators, and staff members can develop a community of scholarship in which to learn and apply the products of learning.

The Computer Center provides planning and technical guidance in the integration of varied new and existing campus information technologies, and provides leadership in the efficient, effective, and timely use of a vital university resource-information. Located in the Forsyth building, the Computer Center reports to the Office of the Chancellor.

Computing facilities at WCU consist of two Digital Equipment Corporation (DEC) VAX 4000/700A computers. The computers operate as a cluster under the VAX/VMS operating system, supporting batch and interactive computing. Altogether, there are 384 terminal ports available. The VAX systems are interconnected with Ethernet, which allows users to select the resources they need between the systems.

The Computer Center supports a wide selection of software on the VAXs for academic computing. We are part of DEC’s Education Initiative Program, better known as the Campus-Wide Software License Grant Program, which gives us access to a wide range of software products. Software programming languages include Basic, C, Fortran, Pascal, COBOL, and MACRO, with DATATRIEVE as a common report-retrieval language. The Student Information System (SIS), Financial Record System (FRS), Loans Management System (LMS), and Alumni Development System (ADS) are administrative software products from Systems & Computer Technology Corporation. The remaining administrative software applications have been developed by the Computer Center staff.

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). We are connected to the North Carolina Information Highway for data access to other locations. WCU is an INTERNET node and an active member of CAUSE and EDUCOM.

The Computer Center also supports the campus-wide network. The backbone between buildings is a FDDI dual optic fiber ring. Within each building is a central wiring closet with a router connecting departmental ethernet segments. Most departmental LANs use Novell servers. The campus-wide network is also connected to the state-wide NC-REN network which provides our Internet access. There are over 1,600 microcomputers in offices and lab facilities on campus. The Computer Center supports both DOS and Apple operating systems and various application programs. Site licenses have been established with Microsoft, WordPerfect, and Apple companies.

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

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

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

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

Continuing Education and Summer School

Through the Division of Continuing Education and Summer School, the instructional resources of all units of the university are made available to the people, businesses, industries, schools, organizations, and agencies of the region and the state. The division promotes and coordinates all noncredit and extension-credit courses and programs as well as the university summer session and distance learning. 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 late January and a summer school updated listing of the courses and programs offered is available in March of each year.
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.

Continuing Professional Education. With the rapid explosion of new knowledge and technologies, up-to-date information is vital for today’s professional. A wide range of opportunities is available for continued learning in many fields. Programs can be tailored to meet specific organizational needs and to assist in corporate training efforts at any site.

MicroNet and Distance Learning

Micronet is a computer teleconferencing system linking North Carolina schools with each other, the WCU faculty, and local and global resources. This electronic partnership encompasses a variety of disciplines at all grade levels and can be formatted and personalized for use in a teacher’s specific curriculum or adapted to a school’s administrative or other educational needs. Features include electronic mail, Internet connection, projects, databases, and files, university courses, tutor/testmaker, and accessible technical support. New uses are constantly being developed, and inquiries should be directed to Micronet at (800) 446-0149.

Additional distance learning opportunities available through the Division of Continuing Education and Summer School include interactive video instruction for western North Carolina schools, video conferences, North Carolina Information Highway Access, and correspondence courses through the North Carolina university system.

Elderhostel. This national program for people 55 years of age or older is offered on campus every summer and in the spring and fall at selected off-campus locations. Elderhostelers live in a residential setting and attend three classes each day for a week. They enjoy various types of entertainment in the evenings. The weekly fee includes room, board, classes, and extracurricular activities. A limited number of local commuter spaces are available in each session.

Listener’s Program. The Listener’s Program provides persons who are not currently enrolled in a college or 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.

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

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

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

Ramsey Regional Activity Center

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

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

Other Offices and Services

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

Institutional Research. The Office of Institutional Research is responsible for 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 Center for Improving Mountain Living, and the International Development Program. The office acts as liaison with regional, national, and international groups and agencies and coordinates the university's regional economic development initiatives and its international assistance and development programs.

University Advancement. The Office for University Advancement facilitates and supports collaborative university-wide efforts in fund raising, alumni affairs, institutional marketing, and student recruitment. The Development Foundation of Western Carolina University, Inc., founded in 1971 to promote the welfare and educational goals of the University, is housed administratively in Advancement, as are the offices of the Alumni Affairs, Catamount Club, Loyalty Fund, and Major Gifts programs. All institutional initiatives involving fund raising from private sources are coordinated through the University Advancement Office.

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 including those in electronic formats. It is responsible for producing or arranging for production of all university film, video, electronic media, and slide-tape presentations intended for the public.

N.C. Center for the Advancement of Teaching

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

Institute for College and University Teaching. The Institute for College and University Teaching (ICUT) promotes excellence in teaching among faculty members and higher education institutions in North Carolina and across the Southeast. The Institute designs and organizes programs for college and university faculty members on issues of teaching, learning, and student development. It promotes development of collaboration and partnerships among educators and education institutions of all types and at all levels. Dedicated to
elevating the role and professional practice of teaching within higher education, the Institute provides a climate for post-secondary faculty to deepen their understandings of the art and science of teaching.

**Vocational/Technical Instructor Project.** An integral part of the Institute for College and University Teaching, this project provides assistance to instructors in the North Carolina Community College system desiring to earn a bachelor's degree. Degree requirements may be met by a combination of transfer credit, experiential learning credit, and WCU credit. Courses are offered at locations and times convenient for program participants. The project provides funds for tuition and fees for qualified vocational/technical instructors.
STUDENT SERVICES

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

Housing

The university's ten residence halls are an important part of campus life, offering a variety of experiences that can contribute to intellectual, personal, and social development. The residence halls 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. This requirement may be waived if a student lives with parents, legal guardians, grandparents, or brothers and sisters, or is married. Waivers for other reasons are decided by the Assistant Vice Chancellor for Student Development and the Director of University Housing.

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

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

Room Reservations. A student may reserve a room by sending a $75 reservation/damage deposit and a signed application/contract card to the Department of University Housing. 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 Department of University Housing reserves the right to make reassignments when necessary. Students who wish to change rooms must get approval in advance from the Department of University Housing.

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 Department of University Housing. Students who have official university duties also may arrive earlier if the Department of University Housing is notified in advance. A small fee is charged when students move into the halls before the official opening date. Unless the Department of University Housing 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 room-reservation deposit serves to reserve a room for each successive semester until graduation or until the student leaves the residence halls. It also serves as a damage deposit. The deposit will be refunded after the last term of residence, less damage charges and other university debts. Students should notify the Department of University Housing 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, new students send a $75 room-reservation/damage deposit and a signed application contract to the Department of University Housing. If a student has an active contract, he or she is required to fill out a summer school contract with the Department of University Housing. The deposit is refundable if the student notifies the Department of University Housing of the cancellation by May 15.

Housing for Married and Graduate Students. Robertson Hall is available to married and graduate students. It consists of 37 efficiency and five one-bedroom apartments. A limited number of other apartments ordinarily reserved for faculty and staff also may be available to them. Madison Hall is available for graduate students. It offers 41 private rooms with private baths and is an air-conditioned, non-smoking hall.

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 antennae, 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. These include 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 Department of University Housing 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 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 University Housing and receive approval in advance. Students living off campus are governed by the rules and regulations of the university while on campus. All freshmen are required to live 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, Last Minute Productions and University Center staff, a ballroom, several meeting and conference rooms, an art gallery, food service, outdoor rental, a television lounge, and billiard room. Through functions such as dinner on the lawn, 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 Last Minute Productions program committee.

Recreation, Fitness 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. An indoor fitness center is expected to open for students, faculty, and staff during the 1996 spring semester.

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

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

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

Health Services

Routine and urgent 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 Services

The Counseling and Psychological Services Center and the Testing Center. The Center provides free and confidential student services including individual and group counseling and therapy, emergency on-call, consultation, and outreach programming to aid students with educational, personal, or psychological concerns. Testing includes the Graduate Record Examination, The Praxis Series (PPST and NTE), Medical College Admission Test, Scholastic Aptitude Test, Law School Admission Test, Graduate Management Admission Test, Miller Analogies Test and College Level Examination Program (CLEP). Appointments can be made at 227-7469, Scott Building (East Wing).

The Smoky Mountain Counseling Center. This center is a county outpatient diagnostic and treatment facility. Some services are under contract with Western Carolina University and are free for students through the Counseling and Psychological Services Center. There is a fee (sliding scale), however, for most services. Appointments can be made at 293-9281, Killian Annex.

Other Services and Facilities

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

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

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

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

Department of Veterans Affairs Educational Benefits. This institution is approved under the provisions of Title 38 United States Code, Chapter 36. Persons eligible and entitled under provisions of Chapters 30, 31, 32, 34, 35 and Section 901 and 903 and Title 10 United States Code, Chapters 106 and 107 may enroll in programs approved by the North Carolina States Approving Agency. All inquiries concerning VA educational benefits should be addressed to the Director of Student Services, Western Carolina University, Cullowhee, N C 28723.

International Student Services. The Director for Student Services and International Student Advisor serves as the advisor on immigration matters, advising, programming, and all aspects of university and community life.
Books and Supplies. The WCU Bookstore offers students a 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, class rings, and computer hardware and software 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.

Wellness Program
The goal of the Wellness Program is to provide students, faculty, and staff a positive and healthy environment in which to live and grow. The program provides services on health and wellness issues, including health presentations, resources to help individuals with projects and personal issues, a Wellness Resource Library, a walking program for students, faculty, and staff, and events centered on national awareness topics such as fitness, nutrition, AIDS, and alcohol. For further information, call 704-227-7018.

Meals. Western Carolina University provides food services for students at three campus locations:
- Dodson Cafeteria on the lower campus
- The Food Court at the entrance to Dodson Cafeteria
- Brown Cafeteria on the upper campus

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. Participation in a board plan is optional for commuting students. The various board plans offered are described in the fees section of this catalog.

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

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 30-day period. An on-campus branch of the Cullowhee Post Office, in McKee Building, provides service from 11 am until 1 pm, 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 (for students) a free late-afternoon shuttle bus service between Cullowhee and Sylva. This service is provided for all WCU students and travels to all shopping areas, grocery stores, and the health department in Sylva. Information about the schedule is available at the information desk in the University Center.

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

Disabled Student Services. Assistance for students with disabilities is available through the Office for Student Development, 460 H F 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 or destructive behavior, or who impinge on the rights of other individuals, as these terms are defined in the Student Handbook, are subject to disciplinary action by the university.

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

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

The university, in accordance with the laws of the State of North Carolina, forbids the possession or use of fireworks in any building or location on the campus. Severe disciplinary action will be taken if this law is violated.

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

**Policy on Illegal Drugs**

**I. Purpose**

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

**II. Applicable Policies, Practices, and Programs**

A. **Education, Prevention, Counseling, and Rehabilitation**

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

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

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

B. Enforcement and Penalties

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

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

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

4. The penalties to be imposed by the university shall range from written warnings with probationary status to 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, methaqualone), any student shall be expelled and any faculty member, administrator, or other employee shall be discharged.

* 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.
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 absence, the chancellor's designee concludes that the person's continued presence within the university community would constitute a clear and immediate danger to the health or welfare of other members of the university community, provided that if such a suspension is imposed, an appropriate hearing of the charges against the suspended person shall be held as promptly as possible thereafter.

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

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

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

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

Policy on Computer Abuse

The university provides computer access through the computer center and college and department computer systems. It is essential that computer systems be protected from misuse and unauthorized access subject to university policy and applicable state and federal laws.
Computer abuse defined as, but not limited to, privacy issues, theft, vandalism, copyright issues, and harassment will be referred to the Director of the Computer Center and/or college or department computer network and laboratory managers. Abuse involving theft or vandalism will also be reported to the Director of Public Safety. Penalties include, but are not necessarily limited to, suspension or revocation of computing privileges, reimbursement to the university for resources consumed, other legal action including action to recover damages, referral to law-enforcement authorities, and referral to the Office of the Vice Chancellor for Student Development for disciplinary action. In connection with inquiries into possible abuses, the university reserves the right to examine files, programs, passwords, accounting information, printouts, or other computing material without notice authorized only by the Director of the Computer Center.

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

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

Information on crime-prevention programs and crime statistics is available at the Public Safety Office in the Jordan-Phillips Fieldhouse or from the Office for Student Development, 460 Robinson Administration Building.
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 1996-97 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 $25. 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 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. See the Academic Calendar.

**Fees Per Semester**

<table>
<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuition</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina student</td>
<td>$420.00</td>
<td>$420.00</td>
</tr>
<tr>
<td>Out-of-state student</td>
<td>3,841.00</td>
<td>3,841.00</td>
</tr>
<tr>
<td>Required fees*</td>
<td>377.85</td>
<td>377.85</td>
</tr>
<tr>
<td>Book Rental Fee</td>
<td>68.00</td>
<td></td>
</tr>
<tr>
<td><strong>Room</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence Hall Double Room Rate</td>
<td>675.00</td>
<td>675.00</td>
</tr>
<tr>
<td>Madison Hall rate (graduate housing)</td>
<td>1,215.00</td>
<td></td>
</tr>
<tr>
<td>Robertson Apartments (married housing)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Efficiencies</td>
<td>1,260.00</td>
<td></td>
</tr>
<tr>
<td>One bedroom apartments</td>
<td>1,462.50</td>
<td></td>
</tr>
<tr>
<td><strong>Board (required of residence hall students)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Declining Balance-Standard Option</td>
<td>662.00</td>
<td>662.00</td>
</tr>
<tr>
<td>Declining Balance-Low Option</td>
<td>601.00</td>
<td>601.00</td>
</tr>
<tr>
<td>15-Meal Plan</td>
<td>585.00</td>
<td>585.00</td>
</tr>
<tr>
<td>21-Meal Plan</td>
<td>628.00</td>
<td>628.00</td>
</tr>
<tr>
<td>18-Flex Meal plus $50 plan</td>
<td>800.00</td>
<td>800.00</td>
</tr>
<tr>
<td>12-Flex Meal plus $100 plan</td>
<td>712.00</td>
<td>712.00</td>
</tr>
<tr>
<td><strong>Totals:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Day student</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina rate</td>
<td>$865.85</td>
<td>$797.85</td>
</tr>
<tr>
<td>Out-of-state rate</td>
<td>4,286.85</td>
<td>4,218.85</td>
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<tr>
<td>Residence hall boarding student</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Carolina rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with Declining Balance-Standard Option</td>
<td>2,202.85</td>
<td>2,134.85</td>
</tr>
<tr>
<td>with Declining Balance-Low Option</td>
<td>2,141.85</td>
<td>2,073.85</td>
</tr>
<tr>
<td>with 15-Meal Plan</td>
<td>2,125.85</td>
<td>2,057.85</td>
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<tr>
<td>with 21-Meal Plan</td>
<td>2,168.85</td>
<td>2,100.85</td>
</tr>
<tr>
<td>with 18-Flex Meal plus $50 plan</td>
<td>2,340.85</td>
<td>2,272.85</td>
</tr>
<tr>
<td>with 12-Flex Meal plus $100 plan</td>
<td>2,252.85</td>
<td>2,184.85</td>
</tr>
</tbody>
</table>
Out-of-state rate
- with Declining Balance- Standard Option: $5,623.85, $5,555.85
- with Declining Balance-Low Option: $5,562.85, $5,494.85
- with 15-Meal Plan: $5,546.85, $5,478.85
- with 21-Meal Plan: $5,589.85, $5,521.85
- with 18-Flex Meal plus $50 plan: $5,761.85, $5,693.85
- with 12-Flex Meal plus $100 plan: $5,673.85, $5,605.85

* Required fees include Health Services $77.00, Recreational and Cultural, $66.00 Athletics $110.00, Athletic Facilities $16.00
University Center, $88.50 Documents Fee, $3.00, Education and Technology Fee $17.35

** 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>In-State Undergraduate</th>
<th>Out-of-State Undergraduate</th>
<th>In-State Graduate</th>
<th>Out-of-State Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$139.75</td>
<td>$994.75</td>
<td>$129.15</td>
<td>$984.15</td>
</tr>
<tr>
<td>2</td>
<td>174.50</td>
<td>1,029.50</td>
<td>153.30</td>
<td>1,008.30</td>
</tr>
<tr>
<td>3</td>
<td>209.25</td>
<td>1,064.25</td>
<td>282.45</td>
<td>1,993.45</td>
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<tr>
<td>4</td>
<td>244.00</td>
<td>1,099.00</td>
<td>306.60</td>
<td>2,017.60</td>
</tr>
<tr>
<td>5</td>
<td>278.75</td>
<td>1,133.75</td>
<td>330.75</td>
<td>2,041.75</td>
</tr>
<tr>
<td>6</td>
<td>418.50</td>
<td>2,129.50</td>
<td>459.90</td>
<td>3,025.90</td>
</tr>
<tr>
<td>7</td>
<td>453.25</td>
<td>2,164.25</td>
<td>484.05</td>
<td>3,050.05</td>
</tr>
<tr>
<td>8</td>
<td>488.00</td>
<td>2,199.00</td>
<td>508.20</td>
<td>3,074.20</td>
</tr>
<tr>
<td>9</td>
<td>627.75</td>
<td>3,193.75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>662.50</td>
<td>3,228.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>697.25</td>
<td>3,263.25</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): $25.00
- Late Registration Fee: 10.00
- Cap, Gown, and Hood: obtained through WCU Bookstore
- CLEP, GRE, NTE, etc: fee set by Educational Testing Service

Board Plan

University policy requires students who live in a residence hall to purchase one of the following board plans:

- *18-Flex Meal plus $50 plan: $800.00
- *12-Flex Meal plus $100 plan: 712.00
- **21-Meal Standard Plan (3 meals/day, in sequence, 7 days/week): 628.00
- **15-Meal Standard Plan (any 15 meals, in sequence, Sun-Sat): 585.00
- ***Declining Balance-Standard Option: 662.00
- ***Declining Balance-Low Option: 601.00
* The Flex Plan is a meal plan that combines an “All You Care To Eat” program located at Brown Cafeteria and a declining balance account than can be used at the other food-service locations on campus.

** The Standard Meal Plans provide a set number of full meals per week at Dodson and Brown cafeterias. In lieu of a cafeteria meal, participants can claim an allowance for purchases at the Food Court and University Center locations. Students who purchase one of the standard meal plans may supplement these plans with a declining balance account in minimum increments of $50.

*** The Declining Balance Meal Plans are dining programs wherein students pay an advance deposit at the beginning of each semester, and purchases are deducted throughout the term. During the semester, additional prepayments in minimum increments of $50 may be made by any student with a declining balance account.

Participation in any of the above-described board plans is optional for commuting students. Commuting students have two additional options:

--- A declining balance plan with minimum prepayment of $50, or

--- A 10-meal per week standard plan priced at $458 per semester.

**Tuition Surcharge Policy**

In keeping with requirements of the 1993 North Carolina Senate Bill 27, the Board of Governors of the University of North Carolina has established procedures to impose a 25 percent tuition surcharge on students who take more than 140 semester hours and more than eight regular semesters (i.e., fall and spring) to complete a baccalaureate degree. This policy is effective for all new undergraduates entering the fall semester 1994.

The semester hours used to calculate the total of 140 hours include repeated, failed, dropped (i.e., W’s), and transferred credit courses.

Advanced Placement (AP), College Level Examination Program (CLEP), WCU advanced placement, and courses including extension courses earned through summer session(s) at any University of North Carolina institution are excluded from the 140-hour calculation.

Students pursuing a second baccalaureate degree will have the surcharge applied to hours that exceed 110 percent of the hours determined to be required to earn the degree.

In all cases, the surcharge applies only to tuition and not fees.

The official policy may be obtained from the Office of Academic Services (HFR 550) during regular office hours.

**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 $68 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 replacement cost (list price less 20 percent), but this does not exempt them from paying the rental fee. Further information about the Book Rental Plan can be found in the Faculty Handbook, Volume 2, Section 5.19.

Rental books must be returned not later than five working days after the last day of final examinations for each term, including summer school. Students not complying with this time limit will be charged a fine of $20 if the books are returned within the first two weeks of the next regular term, including summer school. Students who do not return their books within the first two weeks of the next regular term will be required to purchase the books at replacement cost (list price less 20 percent). Grossly mistreated books must be purchased by the student.
Graduate students must purchase all their texts regardless of the level of the courses. Textbooks for courses numbered 500 and above are available at the bookstore. Textbooks for courses numbered below 500 are available for purchase at the Book Rental Department.

Residence Status for Tuition Purposes

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

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

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

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

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

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

In addition, a separate North Carolina statute affords tuition rate benefits to certain military personnel and their dependents even though not qualifying for the in-state tuition rate by reason of twelve months legal residence in North Carolina. Members of the armed services, while stationed in and concurrently living in North Carolina, may be charged a tuition rate lower than the out-of-state tuition rate to the extent that the total of entitlements for applicable tuition costs available from the federal government, plus certain amounts based under a statutory formula upon the in-state tuition rate, is a sum less than the out-of-state tuition rate for the pertinent enrollment. A dependent relative of a service member stationed in North Carolina is eligible to be charged the in-state tuition rate while the dependent relative is living in North Carolina with the service member and if the dependent relative has met any requirement of the Selective Service System applicable to the dependent relative. These tuition benefits may be enjoyed only if the applicable requirements for admission have been met, these benefits alone do not provide the basis for receiving those derivative benefits under the provisions of the residence classification statute reviewed elsewhere in this summary.
Grace Period. If a person (1) has been a bona fide legal resident, (2) has consequently been classified a resident for tuition purposes, and (3) has subsequently lost North Carolina legal residence while enrolled at a public institution of higher education, that person may continue to enjoy the in-state tuition rate for a grace period of 12 months measured from the date on which North Carolina legal residence was lost. If the 12 months ends during an academic term for which the person is enrolled at a state institution of higher education, the grace period extends, in addition, to the end of that term. The fact of marriage to one who continues domiciled outside North Carolina does not by itself cause loss of legal residence marking the beginning of the grace period.

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

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

(b) If a minor has lived for five or more consecutive years with relatives (other than parents) who are domiciled in North Carolina and if the relatives have functioned during this time as if they were personal guardians, the minor will be deemed a resident for tuition purposes for an enrolled term commencing immediately after at least five years in which these circumstances have existed. If under this consideration a minor is deemed to be a resident for tuition purposes immediately prior to his or her eighteenth birthday, that person on achieving majority will be deemed a legal resident of North Carolina of at least twelve months' duration. This provision acts to confer in-state tuition status even in the face of other provisions of law to the contrary, however, a person deemed a resident of 12 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 12-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.

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, a full-time or part-time student who withdraws from the university on or before the first day of classes will be refunded 100 percent of tuition and fees. Students who withdraw from the university following the first day of classes are entitled to refunds of tuition and fees in accordance with the following schedule:

1-11 calendar days following the first day of classes: 90%
12-28 calendar days following the first day of classes: 50%
29-57 calendar days following the first day of classes: 25%
58 calendar days following the first day of classes: 0%

EXCEPTION Students who withdraw from the University in their initial term of enrollment are entitled to refunds of tuition and fees in accordance with the following schedule:

On or before the last calendar day of regular registration: 100 percent
1-7 calendar days following the last day of regular registration: 93 percent
8-14 calendar days following the last day of regular registration: 86 percent
15-21 calendar days following the last day of regular registration: 79 percent
22-28 calendar days following the last day of regular registration: 72 percent
29-35 calendar days following the last day of regular registration: 65 percent
36-42 calendar days following the last day of regular registration: 58 percent
43-49 calendar days following the last day of regular registration: 51 percent
50-56 calendar days following the last day of regular registration: 44 percent
57-63 calendar days following the last day of regular registration: 37 percent
64-70 calendar days following the last day of regular registration: 30 percent
71 calendar days following the last day of regular registration: 0 percent

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

Summer School Tuition and Fees. A student who withdraws from summer school on or before the first day of classes will be refunded 100 percent of tuition and fees. Students who withdraw after the first day of classes are eligible for refunds through the first 50 percent of the summer terms. The refund prorations for summer school are available from the controller's office.

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. The residence hall deposit is not refundable if withdrawal occurs before completion of the current housing contract period.
Meal ticket refunds for Standard Meal Plans will be calculated at the same rate as tuition and fees. Meal ticket refunds for Declining Balance Plans will be based on the actual balance remaining on the student account at the time of withdrawal. Flex Meal Plans have a standard and a declining balance component. Refunds for Flex plans will be based on the policy applicable to each component. Refunds will not be made for the last two weeks of a semester or for the last week of a summer session.

All refunds, except those for withdrawals prior to the first day of classes, are subject to an administrative fee not to exceed the lesser of $100.00 or 5% of institutional charges.

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

Financial Aid

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

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

The WCU Data form will be mailed to applicants upon receipt of information from the federal processor. Receipt of this information generally completes the application process, provided applicants are not selected for verification, which requires additional documents. Since the most attractive sources of financial assistance are very limited, applicants are encouraged to complete the FAFSA by the institutional priority deadline date of March 31. Failure to complete the application may result in the loss of institutional grants or scholarships.

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

<table>
<thead>
<tr>
<th>Full Time Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>At completion of this semester</td>
</tr>
<tr>
<td>Total minimum credits</td>
</tr>
<tr>
<td>Minimum required GPA</td>
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</table>
To remain eligible for financial aid a student must meet these minimum requirements

Students are expected to complete their undergraduate degree in eight semesters (four years)

Notification of Awards. Notification of awards, beginning with completed applications for aid received prior to April 1, will begin April 1 and will continue thereafter. The processing time for applications is approximately three weeks after the file is complete.

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 work related to the student’s field of study. Composite awards frequently are made, with the total amount dependent upon the student’s individual needs and financial situation. Application forms and further information are available from the financial aid office.

Loans

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

Federal Direct Stafford/Ford Loan. These government-subsidized loans are available to students through lending institutions. They are insured by the federal government and are available to undergraduate and graduate students who demonstrate financial need and meet the federal eligibility requirements. Depending on demonstrated need, a student may borrow up to $2,625 as a freshman, $3,500 as a sophomore, and $5,500 per year for the third through fifth years of undergraduate work. Graduate students may borrow up to $8,500 per year. There is a 4 percent origination fee with a variable interest rate based on the 91-day Treasury Bill plus 3.10 percent (capped at 8.25 percent). Repayment begins the day following expiration of a six-month grace period.

Federal Direct Unsubsidized Stafford/Ford Loan. The Federal Direct Unsubsidized Stafford/Ford Loan Program provides loans to students after their demonstrated need has been met. The maximum amounts to borrow is based on the grade level of the students. There is a 4 percent combined origination and insurance fee. The interest is the same as the subsidized Stafford except that the interest is capped at 8.25 percent and the borrower is responsible for accrued interest.

Federal Direct PLUS (Parents) Loans. These loans provide funds to parents to help meet the cost of education. They may borrow up to the cost of education per child minus other financial aid. There is a 4 percent origination fee with a variable interest rate on the basis of 52-week Treasury Bill plus 3.10 percent (capped at 9 percent). Interest starts upon disbursement of funds. Repayment begins the date of disbursement of funds. Borrowers may not have an adverse credit history to be determined eligible.

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

The amount of the loan is $4,000 annually to undergraduates during their second, third, and fourth years of study, and $5,000 for graduate students for two years. Recipients agree to cancel their obligation by securing full-time employment in designated shortage areas in health or in secondary or post-secondary school systems. For more information, contact the North Carolina Student Loan Program for Health, Science and Mathematics, P O Box 20549, 3824 Barrett Drive, Suite 304, Raleigh, NC 27619-0549, (919) 571-4182.
North Carolina Four-Year Teaching Fellows Program. Established by the General Assembly, this program is designed to fully subsidize the college cost of up to 400 talented 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, Koger Center - Cumberland Building, 3739 National Drive, Suite 210, Raleigh, NC 27612, telephone (919) 781-6833

North Carolina Prospective Teacher Scholarship-Loans. Financial assistance to full-time students in teacher education programs is available at $2,000 per academic year and may be continued for four years of undergraduate study if all prerequisites are met. Priority is given to students preparing for teaching in fields where the need is greatest. Scholarship loans are to be repaid in cash at 6 percent interest or by teaching in the public schools of North Carolina one year for each year of the loan.

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

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

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

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

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

Grants and Scholarships

Federal Pell Grants. Eligibility for assistance under the Pell Program is based on financial need as determined by a formula of the U.S. Department of Education which is applied
uniformly to all applicants. Awards range from $400 to $2,440 per academic year depending upon the cost of attendance. Students who complete the Free Application for Federal Student Aid (FAFSA) are considered for Federal Pell Grant eligibility.

**Minority Presence Grant Program.** Part I - provides funds for grants to white students at predominately African-American institutions and to African-American students at predominately white institutions who are residents of North Carolina, are enrolled for at least three hours of degree credit coursework, and demonstrate financial need. Part II - provides funds for grants to Native Americans and other minority students at the constituent institutions of the University of North Carolina who are residents of North Carolina, are enrolled for at least three hours of degree credit coursework, and demonstrated financial need.

**Incentive Scholarship and Grant Program for Native Americans.** Under this Board of Governors program, North Carolina residents demonstrating need who are Native Americans enrolled in a tribe recognized by North Carolina are eligible. The ISGPNA program has two components, including a need-based portion which awards a maximum of $700 per academic year to full-time students and a merit-based component that is available to entering and transfer students. The merit-based award criteria for entering students requires students to rank in the top one-half (1/2) of their class upon graduation. They must also enroll for a minimum of 15 credit hours per term and agree to perform public service at least 6 hours a week as freshmen and at least 8 hours a week as upperclassmen. Transfer students must hold a degree or certificate that articulates directly into an academic degree program with a cumulative GPA of 2.5. All applicants must apply for financial assistance by completing the Free Application for Federal Student Aid (FAFSA) and an application form available in the Financial Aid Office.

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

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

**North Carolina Tuition Grants.** Established by the General Assembly of North Carolina, each grant covers tuition and is available to academically talented North Carolina students having need who are generally Pell eligible.

**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 $1,500. 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.

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

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

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

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

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

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

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

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

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

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

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

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

**The Paul Cabe Delta Sigma Phi Scholarship Fund.** This fund provides financial awards for deserving young brothers of Delta Sigma Phi, Delta Omicron Chapter of Western Carolina University.

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

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

**Patrick Lee Carmody Scholarship Fund.** This scholarship fund provides financial support for qualified students in the radio-television program. The awards are based on academic achievement, civic and social activity, and contributions to student programs and activities. Renewals depend upon satisfactory progress.
Katherine Causey Award. This award provides financial support for deserving young students who live in rural areas of Alamance, Guilford, and Randolph Counties or counties west of the above-named counties in North Carolina.

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

Chattooga Club Student Employee Scholarship. This scholarship, established by the Chattooga Club, recognizes outstanding WCU students who are employees of the club and is awarded annually.

Wilma Cosper Scholarship. This scholarship program provides 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.

The Anne and Frank Cowan Fund. Established by Anne and Frank Cowan, lifelong residents of Jackson County, for scholarship awards for entering and continuing students based on achievement and general activities in previous schooling and overall social, civic, and academic achievement and potential.

Crum Scholarship Fund. This endowed scholarship fund was established in honor of Joseph and Mabel Crum, former members of the WCU faculty. The fund provides support for worthy and deserving undergraduate students who are majors in mathematics or English. The awards are based on academic achievement and promise, participation in various school activities, and overall social and civic contributions. Awards are renewable.

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

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

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

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

District I, North Carolina Retired School Personnel Senior Scholarship. This scholarship will be awarded annually to a rising senior in the College of Education and Psychology who is a resident of one of the 13 Western North Carolina counties.

The Barbara Dooley Piano Scholarship. Established by Dr. and Mrs. James E. Dooley, this fund provides support for outstanding piano students. For more information, see the head of the Department of Music and the director of the WCU Concert Choir.

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 College of Business. Preference is given to students from Cherokee, Clay, and Graham Counties. Selection is based on overall social, civic, and academic achievement and potential.

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

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

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

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

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

Haywood County Western Alumni Scholarships. These endowed scholarships are awarded to Pisgah and Tuscola 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.

Lester C. Henderson Scholarships. Established by Macon Savings Bank in honor of Lester C. Henderson, retired President and CEO of the bank, these scholarships will be awarded to students from Cherokee, Clay, and Macon Counties who are in need of financial assistance.

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.

Dillard Hooper Scholarship. Established through a bequest from the estate of Louise Hooper, this scholarship will be awarded annually to two students from Jackson County who attend Western Carolina University.
Hospitality Management Scholarship Fund. Established by W D McKee Sr, this scholarship will provide financial support for students majoring in hospitality management.

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 to undergraduate students from Graham County who have expressed an interest in working for the WCU landscaping program.

Wallace Hyde Scholarship Fund. Established by Mrs. Hyde in honor of her husband, this scholarship fund provides financial assistance to qualified and deserving high school graduates residing in Graham County. If no Graham County student qualifies, the university may make the award to a student who is a resident of a county contiguous to Graham County, or hold back the award until such time as a Graham County student qualifies.

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 College of Business based on overall social, civic, and academic achievement and potential. Renewal depends on satisfactory progress toward a degree.

John Sam and Zonell McPhail Lay Endowment. Established by the John Sam Lay Trust, this scholarship provides financial support for students from South Carolina who are attending WCU.

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.

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

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

Ernest C. McCracken Scholarships. These endowed scholarships provide awards based on financial need and overall social, civic, and academic achievement and potential.

The Macon County Art Association Student Art Award. This art award program is established for the purpose of providing financial support for students studying art at WCU. All Macon County, North Carolina art students are encouraged to apply.

Governor James G. Martin Scholarship. Merit-based scholarship established and funded by the Public Service Company of North Carolina, Inc., to honor former Governor Martin for his service to the State of North Carolina.

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

Mary Morrow-Edna Richards Scholarship. Named in memory of Mary Frank Morrow and Edna Cotten Richards. This scholarship is for NC residents enrolled in a teacher-
education program. Student must be in the junior year in college and willing to teach in the public schools of NC for at least (2) years following graduation.

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

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

**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.

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

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

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

**Aston Park Scholarship Fund.** This scholarship program was established to provide financial support to deserving students from western North Carolina who desire to obtain a baccalaureate degree in the College of Applied Sciences.

**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.

**Performing and Fine Arts Scholarships.** These awards are made by the music, art, and communication and theatre arts departments based solely on audition/performance.

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

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

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

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

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

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

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

**The John and Elisabeth 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.

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

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

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

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

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

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

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

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

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

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

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

**Vocational Re却alation 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.** Awarded to freshmen on the basis of high school academic excellence, these scholarships are made possible by gifts to the WCU Loyalty Fund.

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

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

**Employment.**

**Federal Work-Study Program.** Employment is available to eligible students to help them pay for college expenses. An effort is made to assign students to work related to their fields of study or to use their special interests and skills. This program is administered through the financial aid office.

**Graduate Assistantships.** Stipends of $1,000 to $6,000, 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 non-work-study job opportunities on the campus are filed with, and recruited for, the CAP Center. Students should file an application with the CAP Center 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 a.m. and 5 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 Fees and Financial Aid section), 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 Office of Admissions. All materials submitted, including transcripts, become the property of the university and cannot be forwarded or returned.

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

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

Undergraduate Admission

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

Freshman Students

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

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

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

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

- 4 units of English
- 2 units of algebra
- 1 unit of geometry or advanced math
- 3 units of science including:
  - 1 unit of a life or biological science 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 Carolina University: honors, regular, 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, 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 should be completed by February 1.

Regular Admission. Each applicant is evaluated on the basis of individual strengths and weaknesses for placement into the regular course sequence. Priority is given to those applicants who have demonstrated a strong potential for success in the academic programs at WCU. Factors which are used in the evaluation process include the following:

- Courses selected by the student in high school and the grades achieved in those courses. A strong college preparatory curriculum is recommended. All students who are admitted must meet the minimum unit requirements of the University of North Carolina System Special attention may be given to work completed during the senior year.
- Scores achieved on either the Scholastic Aptitude Test (SAT) or the American College Test (ACT).
- Letters of recommendation submitted by teachers, counselors, and school administrators

Placement tests in writing skills and mathematics are given during orientation to identify students who may be exempted from introductory courses or who may qualify for advanced
standing. The placement tests also determine the need for additional preparation in writing and mathematics before pursuing the regular course sequences in freshman English or freshman math.

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

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

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

The provisional admission program features additional peer tutoring and small, clustered classes that are designed to ease the transition from high school to college.

Minimum Admissions Requirement at the 16 Institutions of the University of North Carolina. The following courses are required for admission, in addition to an institution's own specific requirements: in English, four course units emphasizing grammar, composition, and literature, in mathematics, three course units including algebra I, algebra II, and geometry, or a higher level mathematics course for which algebra II is a prerequisite, in science, three course units including one unit in a life or biological science (for example, biology), one unit in a physical science (for example, physical science, chemistry, or physics), and one laboratory course, and in social studies, two course units including one unit in U.S. history, but an applicant who does not have the unit in U.S. history may be admitted on the condition that at least three semester hours in that subject will be passed by the end of the sophomore year.

In addition, it is recommended that prospective students complete at least two course units in one foreign language and take one foreign language course unit and one mathematics course unit in the 12th 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 or ACT test results. If a transfer student failed to meet the Minimum Admissions Requirement, the student must earn six semester hours of transferable credits in each of the following subjects prior to enrolling at WCU: English, math, science, social science. Transfer applications should be submitted by July 1 for fall admission and at least 30 days prior to the beginning of spring or summer terms.

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

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

The 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, application fees, and all documents supporting the request for readmission must be submitted 30 days prior to the beginning of the term in which further enrollment is planned. Transcripts of work taken at any other colleges during the interim must be submitted. Former students who have attempted course work at another institution since their enrollment at Western also must meet transfer admission requirements.

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

Post-Baccalaureate Students

Graduates of accredited four-year institutions may apply for admission to work toward another undergraduate degree. Students cannot be awarded more than one of the same type of undergraduate degree (i.e., two BA degrees, two BS degrees, etc.). The general requirements for second degrees are stated in the section of this catalog on degree programs and requirements. Students seeking to pursue advanced degrees should refer to the Graduate School section.

International Students

International students are welcome at the university. Students must apply for admission and submit all credentials sufficiently in advance of the first term of enrollment to allow for evaluation 30 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 English 131 and English 132, 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 apply as special students by completing an application and the nondegree intent form and paying the $25 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 65. Legal residents of North Carolina aged 65 and over who qualify for admission may enroll in courses on a tuition-free basis if space is available. Information about admission and registration policies and procedures may be obtained from the registrar.

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

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

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

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

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

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

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

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

Registration

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

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

Credits, Grades, and Quality Points

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

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

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

Grading and Quality Point System*

<table>
<thead>
<tr>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>A</td>
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</tr>
<tr>
<td>B</td>
<td>Highly Satisfactory</td>
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</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Poor but passing</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
</tr>
<tr>
<td>I</td>
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<td>--</td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
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</tbody>
</table>

<table>
<thead>
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<th>Interpretation</th>
<th>Quality Points per Semester Hour</th>
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<tr>
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<td>Unsatisfactory</td>
<td>--</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td>--</td>
</tr>
<tr>
<td>AU</td>
<td>Audit</td>
<td>--</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit</td>
<td>--</td>
</tr>
</tbody>
</table>

*See Graduate Catalog Issue for the graduate level grading system

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

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

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

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

**Audit.** When space is available, a registered student may audit a course with the approval of the 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. Audit courses do not count toward the 12 hours required for full-time enrollment. 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 30 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. After consultation with the academic advisor and the instructor of the course, a student may withdraw from any course prior to the expiration of one-half of the term and receive a W. A completed withdrawal form must be presented to the registrar for posting. Course withdrawals do not count toward the 12 hours required for full-time enrollment.

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

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

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

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

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

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

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

Academic Appeals Procedure

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

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

A. Cheating: Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise.

B. Fabrication: Intentional falsification or invention of information or citation in an academic exercise.

C. Plagiarism: Intentionally or knowingly representing the words or ideas of someone else as one's own in an academic exercise.

D. Facilitation of Academic Dishonesty: Intentionally or knowingly helping or attempting to help someone else to commit an act of academic dishonesty, such as knowingly allowing another to copy information during an examination or other academic exercise.

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

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

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

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

Academic Standing.

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

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

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

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

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

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

Academic Honors

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

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

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

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

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

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

Retention Policy for Undergraduates

Good academic standing means that a student has earned an overall "C" or better average (2.0 grade-point average on a 4.0 scale) on courses taken at Western Carolina University. Good academic standing is expected of all students. Students must also meet the university's requirements for minimal progress or retention.

Some departments or colleges at WCU require a cumulative grade-point average higher than 2.0 for admission to or continuance in a major program. Students should refer to the appropriate section in this catalog for specific information. Any minimum grade point requirements imposed by the Office of Admissions at the time of admission will supersede this policy.

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 reports and registration cards. These students should consult with their academic advisor and take advantage of university support services. Students who are in academic difficulty will receive one of the following messages on their grade reports: Academic Probation or Academic Suspension. These messages are determined by the following:

<table>
<thead>
<tr>
<th>Quality Hours, and Transfer Hours</th>
<th>A student is on Academic Probation when GPA is</th>
<th>A student is on Academic Suspension when GPA is</th>
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</table>
Quality Hours
Transfer Hours

A student is on Academic Probation when GPA is

66-70 1 999-1 880
71-75 1 999-1 899
76-80 1 999-1 916
81-85 1 999-1 931
86-90 1 999-1 944
91-95 1 999-1 956
96-100 1 999-1 966
101-105 1 999-1 976
106-110 1 999-1 985
111 or more ---

A student is on Academic Suspension when GPA is

1 879 or lower
1 898 or lower
1 915 or lower
1 930 or lower
1 943 or lower
1 955 or lower
1 965 or lower
1 975 or lower
1 984 or lower
1 999 or lower

In addition to the above determination based on grade-point average, a student will be placed on academic suspension if he/she has been on academic probation for two consecutive regular terms.

First semester transfer students will be academically suspended if they fail to achieve a minimum 1.0 GPA by the end of their first semester at WCU. After the first semester, transfer students must meet the grade-point average minimums listed above which correspond with the total of their transfer hours and WCU quality hours.

Academic Probation Students who are on academic probation must achieve one of the following by the end of the next semester:

1. A cumulative GPA of 2.0 (while taking any number of hours), or
2. Attain a minimum 2.3 semester GPA on at least 12 hours but no more than 15 hours during the semester (During summer terms a student must attain a minimum 2.3 semester GPA on at least six hours but no more than 12 hours).

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

Appeals for reinstatement without having to serve a specified period of suspension are approved or denied by the Admissions, Readmissions, and Retention (ARR) Committee. The ARR Committee's decision is based upon the student's written request for reinstatement and his/her previous academic record. Requests for reinstatement must be submitted to the Office of Academic Services as soon as possible but no later than ten days prior to registration.

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

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 15 semester hours in which the initial attempt is exempted from GPA computation. After the five-course or 15-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 120 or 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 an accumulative 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 highschool. 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 an admissions officer and the department head of the student's major. 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 25% of semester hours applied toward a bachelor's degree must be earned through regular enrollment in Western Carolina University junior-senior level 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. Coursework taken at an institution which has a consortium agreement with Western Carolina University will be given credit on the same basis as coursework taken at WCU.

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.

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 must take the English Proficiency Examination during transfer orientation session or in their first subsequent semester at the university.

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

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

Placement in Freshman English

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

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

Placement in Mathematics

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

Any student may take MATH 101 if their major or program requires only a general education math course. Advisors should check the catalog for major or program requirements.
Advanced Placement

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

Placement in Modern Foreign Languages

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

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

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

Algebra. The upper level algebra test, administered during the summer orientation sessions and at the beginning of each semester, should be taken by freshmen with two or more years of high school algebra. MATH 146 will be waived as a requirement for students whose performance is satisfactory.

Trigonometry. Every student who has had high school trigonometry and plans to take calculus is expected to take the upper-level placement test which has a trigonometry component. This test is administered during summer orientation sessions and 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, computer science, English, French language and literature, German literature, mathematics, physics, and Spanish language and literature.

Assessment Program.

As part of WCU's continuing effort to maintain the quality of academic programs and university services, the university has implemented student outcomes assessment. Measuring student intellectual growth, attitudes, perceptions, and skills provides the university with essential information in evaluating its effectiveness. Students are required to participate in these assessments throughout their enrollment at the university. The assessment information is not part of the student's official record and individual scores may only be reported to the student. Other uses of assessment data will be reported only in aggregate form to the university community and required external sources.

Noncredit Courses.

Credit earned in ENGL 100, MATH 100, and EDRD 150 will not count toward the 120 or 128 hours required for graduation. This policy became effective Fall term, 1987.

Credit by Examination

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

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

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

The College Level Examination Program

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

The minimum score required for credit is the 50th percentile on the national norms for the examination in question. Departments also may require demonstration of achievement by satisfactory completion of an essay or by provision of other evidence of the competencies to be mastered in a course or course sequence. The general examinations of CLEP are not accepted for credit. Subject examinations that are repeated within less than one year from the date of previous testing will not be considered for credit.

Credits earned through CLEP will be posted on the transcript, but no grades are recorded. The student's GPA will not be affected. Duplicate 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 Council on Instruction and Curriculum. However, credit is awarded by a department only for those competencies which are related to areas of instruction in that department and which are applicable to the degree program being completed. Credit is not extended automatically or in blanket fashion.

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

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

To receive credit for military service, a veteran must have served at least 12 months in continuous active duty in a branch of military service and present the registrar an official copy of the Department of Defense (DD) 214. Once evaluated, the student will receive seven hours of credit in free-electives. Service school courses will be evaluated on a course-by-course basis using the American Council of Education recommendations for evaluation of military credits. This award of credit does not alter other university requirements, or major, minor, concentration, or general education requirements for a degree.

Class Attendance Policy

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

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

A student with more unexcused absences in a 100-(freshman) or 200-(sophomore) level course than the semester hours given for the course can expect the instructor to lower the course grade. Class attendance may be required of undergraduate students as a condition of admission or readmission to the university or of eligibility to continue enrollment.

Group Absences and Field Trips

Field trips and scheduled absences should be planned to disrupt the school calendar as little as possible. Only in rare instances should they be made during the last two weeks of the semester or when early registration is in progress. Classes missed because of field trips or service to or for the university must be processed in advance by the instructor and each participating student. The faculty member in charge must obtain permission for the trip from the dean at least 10 days in advance and give each student a copy of the approved request. Each student must present the request, containing the name of the sponsor and the group, the purpose and dates of the trip, and the names of the participating students, to each instructor for signature prior to the trip. The faculty member will notify the dean if any students fail to make the trip. Questions of policy interpretation may be referred by the dean to the Office for Academic Affairs.

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

Final Examination Schedules

An end-of-course evaluation of student work is required in every credit course. End-of-course evaluation may take the form of final exams, reports, projects, performances, portfolios, research papers, conferences, etc.

Many end-of-course evaluations are written final exams. In order to reduce conflicts and final evaluation overloads for both students and faculty, a final examination schedule is developed by the Registrar for the entire university. All final exams are to be administered at their designated times and places during final exam week. Change in time of an examination for an entire class for any reason must be approved by the dean of the college, the vice chancellor for academic affairs, and the chancellor.
No student is required to take more than two final exams on any one day. Any student who has three final exams scheduled on one day has the option of taking all three or submitting to the professors a written request for rescheduling. However, a request to have an examination rescheduled must be made in writing at least five days before the examination is scheduled.

To reschedule, the following steps should be taken:

1. The student should request in writing a change in date from the instructors of the courses that present the conflict.

2. If the conflict is not resolved, the student should work with his/her academic advisor to have one of the exams rescheduled.

3. If the conflict still cannot be resolved, the student should work with the Office for Academic Affairs to have one of the exams rescheduled.

Other end-of-course evaluations, whatever form they take, must also be completed, administered, or submitted during final exam week.

*Early reporting of degree candidate grades prior to spring commencement may require that candidates for graduation complete their end-of-course work prior to the scheduled time during exam week. Specific details are distributed to faculty well in advance of the deadline for reporting degree candidate grades.*

**Graduation and Certification**

*Application for Graduation.* To be certified as a candidate for graduation the student must obtain an application form from the dean and return it to the dean. The dean will send it and an official transcript to the student's department head. In consultation with the student's advisor, the department head will determine all requirements remaining to be completed. At the appropriate time, the application will be brought up to date, signed by the department head, and returned to the dean who will certify it and forward 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 in the College of Education and Allied Profession section.

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

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

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

**Majors.** A major 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). The focus areas available are the following: Anthropology, Art, Economics, English, French, Geography, Geology, German, History, Mathematics, Philosophy, Political Science, Psychology, Sociology, Spanish, Speech, and Theatre Arts.

**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. College-wide requirements may be waived or altered only with the approval of the dean of the college. Waivers of, and substitutions in, university-wide regulations and requirements must be approved by the Office for Academic Affairs. All requests must be submitted to the registrar on the Waiver and Substitutions Form.

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

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

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

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

Second Bachelor’s Degree. Students already graduated from accredited four-year 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. A student may obtain from the university only one of each of the six bachelor’s degrees offered by the university, i.e., only one Bachelor of Arts degree, one Bachelor of Fine Arts degree, one Bachelor of Science degree, one Bachelor of Science in Business Administration degree, one Bachelor of Science in Education degree, and one Bachelor of Science in Nursing degree.

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

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

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

General Education Requirements

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

It is believed that general education not only contributes to these basic objectives, but serves to integrate the total undergraduate experience and to promote optimum student achievement in chosen areas of interest. The framework within which the requirements of general education are satisfied accommodates extensive individuality among students and allows 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 has a choice of several approved courses to satisfy the requirements of each of the general education categories. Degree programs cannot specify a particular course within the general education program. In the cases where a general education course is specified as a requirement for a degree program, then that general education requirement must be met by another of the approved courses in the general education category. A student cannot satisfy both a general education requirement and a degree program requirement by taking a single course. In a few cases, there is a provision for the waiver of a general education requirement based upon placement or passing another course. In these cases, the hours waived become free electives, or in the case of certain approved majors, program and/or major requirements.

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

Foundations Areas, 16 hours

1. **Written Communication, 6 hours**
   ENGL 101, 102 Composition I, II, 3 hours per course

2. **Mathematics, 3 hours**
   MATH 101 Mathematical Concepts, 3 hours
   (This requirement is waived if a student passes a higher-level math course. Hours waived become free electives)

*See Graduate Catalog Issue for graduate degree requirements.
3 **Oral Communication, 3 hours** (formerly Thinking, Reasoning, and Expressing)
CMHC 201, Introduction to Speech Communication, 3 hours, PREQ ENGL 101
Until the end of the academic year 1996-97, the following courses will be accepted as fulfilling the requirement in this area
BA 204 Oral Communication, 3 hours
BIOL 107 (307)** Classical Experiments in Biology, 3 hours
CMHC 110 Persuasive Thinking, Reasoning, and Expression, 3 hours
ECON 108 (313)** The Perfect Society, 3 hours
LAW 101 (321)** Legal Thought, Reasoning, and Implications, 3 hours
PHIL 201 (300)** Logic and Its Uses, 3 hours
PSOC 105 (305)** Current Political and Social Issues, 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 CHEM 135H, CS 150, or CIS 251 by the end of the sophomore year. The requirement may be waived for a junior or senior transfer student who passes BIOL 232, BIOL 333, CHEM 454, CJ 352, ENGL 401, 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 two hours selected from Health 120 or PE courses numbered 102-228
ART 120 Beginning Drawing and Sketching, 1 hour
ART 124 Beginning Ceramics, 1 hour
ART 125 Introduction to Calligraphy, 1 hour
BIOL 108 Recreational Botany, 1 hour
HEAL 120 Personal and Community Health, 2 hours
MUS 110 Introduction to Instrumental Ensembles, 1 hour
MUS 111 Introduction to Vocal Ensemble, 1 hour
MUS 112 Introduction to Piano, 1 hour
MUS 113 Introduction to Singing, 1 hour
MUS 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 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 130 Lifeguard Training, 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 Social, Line, and Folk Dance, 1 hour*

*Only three of the six credit hours earned in FREN, GER, SPAN 110 apply to general education. The remainder apply to program, major, or elective hours outside of general education.
**Courses listed in parenthesis are course number listings for transfer students only from Haywood Community College.
Placement in water sports, and in beginning and advanced golf and tennis is determined by prerequisites if any and by the skills demonstrated at the first class meeting. A student whose skills are inappropriate is advised into a course at the appropriate level.

Perspectives Areas, 25 hours

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

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

2 Physical and Biological Sciences, 7 hours
   a Descriptive Astronomy, 3-4 hours
      AST 101 Biology in the Contemporary World, 3-4 hours
   b Chemistry in Society, 3-4 hours
      BIOL 101 Biology in the Contemporary World, 3-4 hours
      CHEM 101 Chemistry in Society, 3-4 hours
      GEOL 110 Environmental Geology, 3 hours
      PHYS 105 Contemporary Physics, 4 hours
   c Courses in two different sciences are required. The courses selected must include one course with a lab. PHYS 105 may be taken only as a four-hour course including both lecture and lab. All of the other courses may be taken with the lab for four hours of credit or without the lab for three hours of 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
      ART 101, Cherokee Language and Culture, 3 hours
      CHER 101, Cherokee Language and Culture, 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
      PHIL 101, Western Philosophical Traditions, 3 hours
   b Fine or Performing Arts, 3 hours
      ART 104 (308)** Introduction to Visual Arts, 3 hours
      MUS 101 (300)** Music Appreciation, 3 hours
      CMTA 104 (304)** The Theatre Experience, 3 hours

4 Comparative Cultures, 3 hours
   a Comparative Cultural Systems, 3 hours
      ART 120 (320)** Comparative Cultural Systems, 3 hours
      ART 102 (302)** Non-Western Art, 3 hours
      ECON 103 (311)** Economics of Comparative Cultures, 3 hours
      ENGL 204 Cultures in Contact and Collision, 3 hours
      FREN 105 The French-Speaking World, 3 hours
      SPAN 101 Spanish Language and Culture or SPAN 110*, 3 hours
      PHI 101, Western Philosophical Traditions, 3 hours
   b Comparative Cultures, 3 hours
      ANTH 120 (320)** Comparative Cultural Systems, 3 hours
      ART 102 (302)** Non-Western Art, 3 hours
      ECON 103 (311)** Economics of Comparative Cultures, 3 hours
      ENGL 204 Cultures in Contact and Collision, 3 hours
      FREN 105 The French-Speaking World, 3 hours
      SPAN 101 Spanish Language and Culture or SPAN 110*, 3 hours

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

**Courses listed in parenthesis are course number listings for transfer students only from Haywood Community College.
HIST 107 (307)** World Cultures in Historical Perspective, 3 hours
MUS 303 The World of Music, 3 hours
PSC 107 (301)** Comparative Political Cultures, 3 hours
REL 105 Eastern Religious Tradition, 3 hours
SPAN 105 The Spanish-Speaking World, 3 hours

5 The Human Past, 3 hours
ANTH 110 Origins of Civilization, 3 hours
ART 103 Social History of Art, 3 hours
ENGL 201 Literary Landmarks in Western Culture, 3 hours
GER 204 A Literary Perspective on German Civilization, 3 hours
HIST 105 (305)** History of Modern Western Civilization, 3 hours
MUS 102 Music in American Culture, 3 hours
PSC 108 Global Issues in Politics, 3 hours
REL 106 Western Religious Tradition, 3 hours

Programs of Study

The university offers programs leading to bachelor’s, master’s, education-specialist, and doctoral 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 colleges 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 college offering the programs. The colleges are Applied Sciences (AS), Arts and Sciences (A&S), Business (BUS), and Education and Allied Professions (E&AP).

<table>
<thead>
<tr>
<th>Undergraduate Major</th>
<th>College</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Accounting</td>
<td>BUS</td>
<td>BSBA</td>
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<tr>
<td>Anthropology</td>
<td>A&amp;S</td>
<td>BA</td>
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<tr>
<td>Art</td>
<td>A&amp;S</td>
<td>B</td>
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<tr>
<td>Biology</td>
<td>A&amp;S</td>
<td>B</td>
</tr>
<tr>
<td>Business Administration and Law</td>
<td>BUS</td>
<td>BSB</td>
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<tr>
<td>Chemistry</td>
<td>A&amp;S</td>
<td>B</td>
</tr>
<tr>
<td>Child Development and Family Relations</td>
<td>A&amp;S</td>
<td>B</td>
</tr>
<tr>
<td>Clinical Laboratory Sciences</td>
<td>A&amp;S</td>
<td>B</td>
</tr>
<tr>
<td>Clothing, Textiles, and Merchandising</td>
<td>A&amp;S</td>
<td>B</td>
</tr>
<tr>
<td>Communication Disorders</td>
<td>E&amp;AP</td>
<td>BSEd</td>
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<tr>
<td>Communication</td>
<td>A&amp;S</td>
<td>B</td>
</tr>
<tr>
<td>Computer Information Systems</td>
<td>BUS</td>
<td>BSB</td>
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<tr>
<td>Computer Science</td>
<td>A&amp;S</td>
<td>B</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>AS</td>
<td>B</td>
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<tr>
<td>Economics</td>
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<tr>
<td>Electronic Engineering Technology</td>
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<td>B</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>E&amp;AP</td>
<td>BSEd</td>
</tr>
<tr>
<td>Emergency Medical Care</td>
<td>AS</td>
<td>B</td>
</tr>
<tr>
<td>English</td>
<td>A&amp;S</td>
<td>B</td>
</tr>
<tr>
<td>Environmental Health</td>
<td>AS</td>
<td>B</td>
</tr>
</tbody>
</table>
Finance
Food Service Management (Inactive Status)
French
General Home Economics
General Special Education
Geography
Geography/Planning
Geology
German
Health Education (Inactive Status)
Health Information Management
Health Services Management and Supervision
History
Home Economics
Hospitality Management
Industrial Arts (Inactive Status)
Industrial Chemistry
Industrial Distribution
Industrial Technology
Interior Design
International Business
Learning Disabilities (Inactive Status)
Management
Manufacturing Engineering Technology
Marketing
Mathematics
Mental Retardation (Inactive Status)
Middle Grades Education
Music
Natural Resources Management
Nursing
Nutrition and Dietetics
Office Administration
Parks and Recreation Management
Philosophy
Physical Education
Physics
Political Science
Psychology
Recreational Therapy
Science Education
Social Sciences
Social Work
Sociology
Spanish
Special Studies
Speech and Theatre Arts
Sport Management
Theatre
Therapeutic Recreation (See Recreational Therapy)
In addition to the curricula offered by a department or jointly by two departments, the university provides a number of special-purpose programs in which students may participate either as a part of the regular degree programs of their choice or as alternatives to them. These opportunities include the following programs:

**University Honors Program**

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

**Special Studies Programs**

The Bachelor of Arts and Bachelor of Science degrees in Special Studies are university-wide degrees awarded by Western Carolina University. Programs leading to these degrees are designed 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, college, and university levels. Responsibility for the administration of, and academic advisement in, the program is assigned to the several departments and colleges, depending upon the nature of each program.

**Study Abroad**

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

**Preprofessional Programs**

Students who attend the university to prepare for admission into a professional school are provided with a variety of options for 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 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, Mr. 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 consult the catalog of the law school the student plans to attend for specific requirements. Students are advised by the coordinator of pre-law advisement, Dr. Ken Wink.

Freshmen, transfer students, and students who have not declared a major will be assigned a pre-law advisor by the CAP Center. After selecting a major, students will be assigned to an appropriate department and pre-law advisor. The Law School Admission Test is administered twice each year by the Testing Center. 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 preprofessional 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.

Western Carolina University has the following guidelines for enrolling students in external instruction courses/programs. External instruction programs are defined as instruction received at a site(s) to which the student is sent by the enrolling institution to participate in instructional activities. Encompassed in the scope of external instruction are programs referred to as cooperative program, practical training, independent study, and open-circuit televised instruction.

1. All courses are bona fide approved by all required college, university, state, regional and national regulatory agencies. Courses are also approved to meet all certification and licensing requirements.

2. All courses are an integral part of the student's program; credit will apply toward graduation and/or will be required for a particular degree program.

3. All courses are appropriately rigorous with credit assigned proportionate to the amount of instructor involvement and control (course credit assigned determined by university and state requirements).

4. The university/college has an agreement on file with specific work sites assuring that the experiences will provide opportunities for application of the knowledge, skills, and competencies gained from on-campus academic programs.

5. All courses have regularly-employed faculty members responsible for all students participating in external instruction courses.
Cooperative Education Program. Cooperative Education is a program in which students combine academic study with career-related work experience while pursuing a degree. Designed to be an integral part of the educational experience, the program offers experiential learning in both full-time and part-time positions in virtually all majors. Participants are primarily undergraduates, but some graduate programs offer Co-op to their students. Information about eligibility for the program, work opportunities, and requirements for credit is available from the Career Services 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.

Army Reserve Officers’ Training Corps

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

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

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

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

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

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

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

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

Nursing. Admission to the upper-division nursing major is competitive and priority is given to the best qualified students. To be considered for admission, all students must have completed or be in the process of completing 60 semester hours of college work, including all program requirements. Admission is based on cumulative GPA on all previous college work and test scores. Applications from non-RNs should be received with all supporting materials by February 15. Notification of the admissions decision will be made by mid-April. Registered nurses are invited to apply at any time of the year.

DEPARTMENT OF CRIMINAL JUSTICE

F Frederick Hawley, Head
E Davis, B Gay, T Ho, W Hyatt, J Schneider

Major in Criminal Justice, B.S. Degree

General education, 41 hours

Program requirements, 6 hours  PSY 250 and ENGL 401

The major requires 51 hours as follows

CJ 250 The Criminal Justice System, 3 hours
CJ 320 The Law Enforcement Process, 3 hours
CJ 330 Courts and Criminal Procedure, 3 hours
CJ 340 The Corrections Process, 3 hours
CJ 350 Criminal Justice Theory, 3 hours
CJ 352 Planning and Methodology, 3 hours
CJ 482 Senior Directed Research, 3 hours
PSC 302 or 303 or 304 or 307, 3 hours
PSY 310 or 331 or 363 or 430 or 470, 3 hours
SOC 350 or 354 Deviant Social Behavior or Social Problems, 3 hours
Criminal Justice upper-division electives, 21 hours, with no more than 3 hours from CJ 389/483 and no more than 6 hours from CJ 480

General electives (30 hours) 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
E Bee, T Connelly, N Cook, B Cosper, S Feltner, W Florean, W Foegelle, S Higgins, M Hubble, N Kehrberg, P Kneller, G Smith, D Southern, C Stevens, D Trigg
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
CLS 300 Instrumentation and Blood Collection, 1 hour
CLS 301 Analysis of Body Fluids, 2 hours
CLS 302 Clinical Microbiology, 4 hours
CLS 303 Basic Hematology, 3 hours
CLS 304 Immunology, 3 hours
CLS 305 Clinical Parasitology, 2 hours
CLS 306 Immunohematology, 4 hours
CLS 307 Medical Mycology, 2 hours
CLS 308 Advanced Hematology, 3 hours
CLS 309 Clinical Biochemistry, 3 hours
HSCC 310 Principles of Clinical Precepting, 1 hour
CLS 406 Laboratory Management, 2 hours
CLS 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, 17 hours  MATH 130, MATH 170 or PSY 251, and MATH 145, PHYS 105 (in addition to courses taken to meet general education requirements), and BIOL 292

The major requires 63 hours as follows

Preprofessional courses, 16 hours  CHEM 132, 133, 330, BIOL 413, 414
ENVH 230 Introduction to Environmental Health Science, 3 hours
ENVH 310 Water Quality Control, 4 hours
ENVH 330 Food Protection and Sanitation, 4 hours
ENVH 375 Environmental Toxicology, 3 hours
ENVH 440 Air Quality Control, 4 hours
ENVH 457 Industrial Hygiene, 3 hours
ENVH 458 Environmental Regulation and Law, 3 hours
ENVH 460 Senior Seminar in Environmental Health, 1 hour
ENVH 470 Principles of Epidemiology, 3 hours
ENVH 475 Environmental Program Administration, 3 hours
ENVH 483 Environmental Health Internship, 3 hours
GEOG (GEOL) 305 Soils and Hydrology, 4 hours

Designed emphasis area (9 hours) in industrial safety, public health, water quality, chemistry, environmental protection or natural resource management

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 8 hours at the junior-senior level

Major in Health Information Management, B.S. Degree

General education, 41 hours

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

The major requires 56 hours as follows

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

Electives (13 hours), including at least 3 hours at the junior-senior level, are required to complete the program
Major in Health Services Management and Supervision, B.S. Degree

General education, 41 hours

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

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

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

Concentration selected from
Management, 12 hours ACCT 161, MGT 300, 302, 306
Education, 12 hours 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 55 hours as follows
ND 231 Food Science, 4 hours
ND 330 Human Nutritional Needs, 3 hours
ND 334 Nutritional Applications, 3 hours
ND 433 Research Methods in Nutrition, 3 hours
ND 434 Experimental Methods in Foods, 3 hours
ND 436 Advanced Human Nutrition, 4 hours
ND 437 Diet Therapy, 4 hours
ND 439 Introduction to Professional Practice, 3 hours
HSCC 310 Principles of Clinical Precepting, 1 hour
HM 333 Quantity Foods, 3 hours
HM 430 Food Systems Management, 3 hours
BIOL 292 Human Anatomy and Physiology, 4 hours
BIOL 313 or HSCC 260 Microbiology in Health and Nutrition or Etiology of Infectious Diseases, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 2 hours
HSMS 320 Human Resource Management in Health Care Agencies, 3 hours
HSMS 450 Financial Management in Health Care, 3 hours
MATH 170 Applied Statistics or PSY 251 Research Methods I Statistics, 3 hours
MGT 300 Introduction to Management, 3 hours

General electives (13 hours), including at least 4-7 hours at the junior-senior level, are required to complete the program

Minor in Nutrition and Dietetics

The minor requires 18-22 hours, including ND 231, 330 and 334, and 8 hours of approved electives
DEPARTMENT OF HUMAN ENVIRONMENTAL SCIENCES

Davia Allen, Head

J Baldwin, L. Cowan, J Dowell, V Duckett, S Grunwell, J Hall, D Kennedy, J King, M Yops, J Zhao

Major in General Home Economics, B.S. Degree

General education, 41 hours

The major requires 63 hours, including 3 hours in core courses (CDFR 261) and the following

- HE 311 Home Economics Curriculum and Materials, 3 hours
- HE 321 Family Finance, 3 hours
- HE 410 Consumer Strategies, 3 hours
- HE 483 Internship, 3 hours
- HE 484 Internship, 3 hours
- HE 485 Internship, 3 hours
- CDFR 364 Survey of Human Development, 3 hours
- ND 231 Food Science, 4 hours
- ND 330 Human Nutritional Needs, 3 hours
- ND 431 Food Preservation, 3 hours
- HM 333 Quantity Food, 3 hours
- CTM 140 Fashion Analysis, 3 hours
- CTM 242 Textiles, 3 hours
- CTM 243 Apparel Quality Analysis, 3 hours
- CTM 342 Apparel Production Processes, 3 hours
- IDS 153 Introduction to Interior Design, 2 hours
- IDS 256 Survey of Interior Materials, 3 hours
- CIS 251 Management Information Systems, 3 hours
- COUN 430 Individual and Group Counseling, 3 hours
- EDHE 431 Foundations of Adult Education, 3 hours

General electives (18 hours), including a minimum of 9 hours at the junior-senior level, are required to complete the program

Major in Child Development and Family Relations, B.S. Degree

General education, 41 hours

The major requires 62 hours, including the 3-hour core (CDFR 261) and the following

- CDFR 361 Environments for Young Children, 3 hours
- CDFR 363 Child Development I, 3 hours
- CDFR 364 Survey of Human Development, 3 hours
- CDFR 367 Child Development II, 3 hours
- CDFR 463 Infancy, 3 hours
- CDFR 464 Family and Community, 3 hours
- CDFR 465 Day Care Management, 3 hours
- CDFR 466 Methods I, 3 hours
- CDFR 467 Perspectives in Parenting, 3 hours
- CDFR 468 Families Organization and Function, 3 hours
- CDFR 469 Family Gerontology, 3 hours
- CDFR 470 Methods II, 3 hours
- CDFR 483, 484, 485 Internship, 3 hours each course
- CDFR 497 Child and Family Seminar, 3 hours
- HEAL 250 First Aid and Safety Education, 2 hours
- ND 330 Human Nutritional Needs, 3 hours

Related electives (6 hours) approved by the adviser
General electives (25 hours) are required to complete the program.

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

General education, 41 hours

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

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

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

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

General education, 41 hours

The major requires 46 hours, including 3 hours in core course (CDFR 261) and the following:
- HE 311 Home Economics Curriculum and Materials, 3 hours
- HE 321 Family Finance, 3 hours
- HE 410 Consumer Strategies, 3 hours
- CDFR 363 Child Development I, 3 hours
- ND 231 Food Science, 4 hours
- ND 330 Human Nutritional Needs, 3 hours
- HM 333 Quantity Food, 3 hours
- CTM 242 Textiles, 3 hours
- CTM 243 Apparel Quality Analysis, 3 hours
- CTM 342 Apparel Production Processes, 3 hours
- IDSN 153 Introduction to Interior Design, 2 hours
- IDSN 256 Survey of Interior Materials, 3 hours
- CHEM 132 Introductory Chemistry, 4 hours
- EDEL 466 Computers in Education, 3 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 Hospitality Management, B.S. Degree**

General Education, 41 hours

Program requirements 11 hours: ACCT 161 or 251, ECON 231, 232, HEAL 250

The major requires 64 hours:
- HM 130 Introduction to the Hospitality Industry, 3 hours
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>LAW 230</td>
<td>Legal Environment of Business</td>
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<tr>
<td>LAW 402</td>
<td>Hospitality Law</td>
<td>3</td>
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<td>MGT 300</td>
<td>Introduction to Management</td>
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<tr>
<td>MGT 304</td>
<td>Personnel Management</td>
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<td>MKT 301</td>
<td>Principles of Marketing</td>
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<td>FIN 305</td>
<td>Financial Management</td>
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<td>ND 330</td>
<td>Human Nutritional Needs</td>
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<td>ENVH 330</td>
<td>Food Protection and Sanitation</td>
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<tr>
<td>HM 333</td>
<td>Quantity Foods</td>
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<tr>
<td>HM 335</td>
<td>Lodging Management</td>
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<tr>
<td>HM 338</td>
<td>Computer Applications in the Hospitality Industry</td>
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<tr>
<td>HM 339</td>
<td>Cost Control in the Hospitality Industry</td>
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<tr>
<td>HM 430</td>
<td>Food Systems Management</td>
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<tr>
<td>HM 431</td>
<td>Hospitality Marketing Management</td>
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<tr>
<td>HM 433</td>
<td>Strategic Planning in the Hospitality Industry</td>
<td>3</td>
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<tr>
<td>PRM 440</td>
<td>Travel and Tourism</td>
<td>3</td>
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<tr>
<td>IET 424</td>
<td>Facilities Management and Maintenance</td>
<td>3</td>
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<tr>
<td>HM 483, 484</td>
<td>Internship or HM 389 Cooperative Education in HM</td>
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<td>CDFR 261</td>
<td>Family Dynamics</td>
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<td>General electives, 12 hours</td>
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**Major in Interior Design, B.S. Degree**

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>IDSN 153</td>
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<tr>
<td>IDSN 253</td>
<td>Space Planning</td>
<td>3</td>
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<tr>
<td>IDSN 256</td>
<td>Survey of Interior Materials</td>
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<td>IDSN 259</td>
<td>Portfolio Review I</td>
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<tr>
<td>IDSN 351</td>
<td>Lighting Design and Color</td>
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<td>IDSN 353</td>
<td>Residential Design</td>
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<tr>
<td>IDSN 355</td>
<td>History of Architecture and Furniture I</td>
<td>3</td>
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<tr>
<td>IDSN 357</td>
<td>Contract Design I</td>
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<tr>
<td>IDSN 358</td>
<td>History of Architecture and Furniture II</td>
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<td>IDSN 359</td>
<td>Perspective Drawing</td>
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<tr>
<td>IDSN 456</td>
<td>Contract Design II</td>
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<td>IDSN 457</td>
<td>Problem Solving in Design</td>
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<td>IDSN 458</td>
<td>Professional Practice in Interior Design</td>
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<tr>
<td>IDSN 459</td>
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<td>IDSN 483</td>
<td>Internship</td>
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<tr>
<td>IET 151</td>
<td>Introduction to Drafting</td>
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<tr>
<td>IET 152</td>
<td>Architectural Drafting and Design I</td>
<td>3</td>
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<tr>
<td>IET 310</td>
<td>CADD for Interior Design</td>
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<tr>
<td>IET 342</td>
<td>Architectural Construction Processes</td>
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<tr>
<td>IET 352</td>
<td>Architectural Drafting and Design II</td>
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<tr>
<td></td>
<td>General electives (13 hours) including at least 5 hours at the junior-senior level</td>
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</tbody>
</table>

**Minor in Child Development and Family Relations**

The minor requires 24 hours, including CDFR 261, 361, 363, 364, 463, 466, 467, 468

**Minor in Clothing and Textiles**

The minor requires 21 hours, including CTM 140, 242, 243, 340, 342, 344, and 441
Minor in Family Services
The minor requires 21 hours, including CDFR 261, 364, 464, 467, 469, HE 321, ND 330

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

Minor in Food Service Management
The minor requires 18 hours, including HM 130, 333, 430, ND 231, 330, and a 3-hour junior- senior elective selected from HM 389, nutrition and dietetics, management, or hospitality management

Minor in General Home Economics
The minor requires 20 hours, including 12 hours selected from ND 231, CTM 242, CDFR 261, HE 321, IDS 256, and 8 hours of electives

Minor in Residential Environments
The minor requires 24 hours, including IDS 153, (Interior Design Track), 253, 256, 355, or 358, IET 152, CTM 242, ART 103 or 136 or 137, CDFR 261 or HE 270

DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY
George DeSan, Head

M Adams, K Ayala, A Ball, J Cook, R Dalley, A Latorre, M McAllister, W Medans, J Pounds, J Turner, K Whitley, D Wood

Major in Electronics Engineering Technology, B.S. Degree
General education, 41 hours

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

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

Seven hours of junior-senior level electives are required to complete the program. The upper- level credit requirement may be met by hours waived within the general education component.
Major in Industrial Distribution, B.S. Degree

General education, 41 hours

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

The major requires 58 hours as follows
CS 130 Introduction to Computing, 3 hours
ID 230 Industrial Distribution, 3 hours
ID 360 Industrial Distribution Organizations, 3 hours
ID 370 Product Management and Inventory Control, 3 hours
ID 479 Industrial Distribution Seminar, 3 hours
IT 335 Industrial Safety, 3 hours
IT 370 Electricity, 3 hours
IT 371 Electronics, 3 hours
IT 423 Fluid Systems, 3 hours
IET 420 Polymers Technology, 4 hours
MET 132 Engineering Graphics, 3 hours
MET 141 Manufacturing Materials and Processes, 3 hours
MET 331 Quality Control I, 3 hours
MKT 301 Principles of Marketing, 3 hours
MKT 306 Professional Selling, 3 hours
MKT 405 Marketing Management, 3 hours
MKT 407 International Marketing, 3 hours
LAW 230 Legal Environment of Business, 3 hours
ACCT 251 Accounting Principles I - Financial, 3 hours

General electives (13 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, 20 hours  MATH 130, 144, 170, PHYS 130, CHEM 132, ECON 231

The major requires 55 hours as follows
CS 130 Introduction to Computing, 3 hours
ENGL 305 Technical Writing or QA 403 Business Research and Reports, 3 hours
IET 420 Polymers Technology, 4 hours
IT 335 Industrial Safety, 3 hours
IT 370 Electricity, 3 hours
IT 423 Fluid Systems, 3 hours
IT 495 Industrial Technology Seminar, 3 hours
MET 132 Engineering Graphics, 3 hours
MET 141 Manufacturing Materials and Processes, 3 hours
MET 231 Engineering CADD, 3 hours
MET 242 Machining Processes, 3 hours
MET 331 Quality Control I, 3 hours
MGT 300 Introduction to Management, 3 hours

Fifteen credits from one of the following options
1) Industrial Safety Concentration  IT 336, 337, 338, IET 342, 421, ENVH 457
2) Industrial and Facilities Operations Concentration  IT 371, IET 410, 424, 434, MET 332, 342
3) A minor or other approved program

General electives (12 hours) which must be at the junior-senior level
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, 25 hours: MATH 145, 146, 153, 170, PHYS 130, 131, CHEM 132

Major requirements, 56 hours as follows
EET 301 DC/AC Electricity, 3 hours
EET 302 Industrial Instrumentation and Control, 3 hours
IT 335 Industrial Safety, 3 hours
IET 420 Polymer Technology, 4 hours
CS 130 Introduction to Computing, 3 hours
MET 132 Engineering Graphics, 3 hours
MET 141 Manufacturing Materials and Processes, 3 hours
MET 231 Engineering CADD, 3 hours
MET 242 Machining Processes, 3 hours
MET 321 Statics and Strength of Materials, 3 hours
MET 331 Quality Control I, 3 hours
MET 332 Quality Control II, 3 hours
MET 341 CNC Machining Technology, 3 hours
MET 342 Manufacturing Analysis and Planning, 3 hours
MET 431 Automated Manufacturing, 3 hours
MET 436 Engineering Economic Analysis, 3 hours
MET 441 Fluid Power and Systems Analysis, 3 hours
MET 478 Senior Design Project Proposal, 1 hour
MET 479 Senior Design Project, 3 hours
Six hours of electives at the junior-senior level are required to complete the degree 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 Architectural Drafting
The minor requires 18 hours including IET 151, 152, 342, 352, 410, and 424.

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

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

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 interpretation, application, and administration of the Occupational Safety and Health Act and other regulations to assist students to develop entry-level expertise that can be applied directly in business and industry. Students who complete HEAL 120 or ENVH 230 or ENVH 457, HSCC 240, IT 335, 336 and 337, or their...
equivalents, with a minimum GPA of 2.0 will be awarded a certificate in occupational safety by the Department of Industrial and Engineering Technology. The certificate is cosponsored by the North Carolina Industrial Commission.

DEPARTMENT OF MILITARY SCIENCE
Jerry M. Darnell, Head
R. Ferguson, N. Jenkins Jr.

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

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

The objectives of the program are to enhance the academic atmosphere through effective time management, physical and mental enrichment, and development of leadership fundamentals, to gain a basic understanding of associated professional knowledge and a strong sense of personal integrity, honor, and individual responsibility, and to establish a sound basis for future professional development.

The ROTC program consists of the basic course for freshmen and sophomores and the advanced course for juniors and seniors. Members of the Army, Navy, Air Force, Marine Corps, or Coast Guard on active duty, commissioned officers and former commissioned officers of these services, and officers of the Public Health Service or National Oceanic and Atmospheric Administration are not eligible for enrollment in the basic or advanced courses. Students with two or more years of high school ROTC training are eligible for advanced placement as determined by the professor of military science. Veterans who have completed one year of active duty and who received an honorable discharge may enter the advanced course. Students interested in completing the program in less than four years should consult the head of the department.

Information about compensation and scholarships for students enrolled in the 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 per 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 meets one hour every week. 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. There are several alternate ways to get credit for the basic course.
DEPARTMENT OF NURSING

Vivian Deutz, Head

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

Major in Nursing, B.S.N. Degree/Generic Curriculum Option

General education, 41 hours

Program requirements, 22 hours  BIOL 291, 292, CHEM 132 or 135, 133, HSCC 260, PSY 250 or approved substitute

The major requires 53 hours as follows

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

General electives (12 or more hours)

Capstone Curriculum Requirements

General education, 41 hours

Program requirements, 22 hours  BIOL 291, 292, CHEM 132 or 135, 133, HSCC 260, PSY 250 or approved substitute

The major requires 52-53 hours as follows

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

General electives (12-13 hours) are required to complete the program
COLLEGE OF ARTS AND SCIENCES

Rosemary DePaolo, Dean

J C Alexander Jr, Associate Dean

The role of the College of Arts and Sciences is to serve as a community of scholarship involving students and faculty in a broad range of intellectual and aesthetic activities.

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

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

The activities of the college also include service to the university, region, state, nation, and 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, college, and university committees. College faculty also share intellectual, cultural, and problem solving interests with audiences throughout western North Carolina and beyond.

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

DEPARTMENT OF ART

Robert Godfrey, Head

W Buchanan, L Budahl, J Byrd, F Eldridge, C Griffin, J Jicha, M Liddle, J Penland, L Petrovich-Mwaniki, J Smythe, J Thompson

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 Introductory Drawing, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
141 Figure Drawing, 3 hours
142 Three-Dimensional Design, 3 hours
416 Contemporary Art, 3 hours

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

Concentration (24 hours) selected from

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

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

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

General education, 41 hours

Program requirements, 6 hours  MFL 231-232 or 240  
The major requires 36 hours as follows  
131 Introductory Drawing, 3 hours  
132 Two-Dimensional Design, 3 hours  
136, 137 Art History Survey I, II, 6 hours  
PHIL 310 Philosophy of Art, 3 hours  

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

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

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

General education, 41 hours

The major requires 57 hours as follows  
131 Introductory Drawing, 3 hours  
132 Two-Dimensional Design, 3 hours  
136, 137 Art History Survey I, II, 6 hours  
142 Three-Dimensional Design, 3 hours  
263 Introduction to Art Education, 1 hour  
363 Art for Children, 2 hours  
367 History and Philosophy of Art Education, 3 hours  
416 Contemporary Art, 3 hours  
463 Art Education Planning, Materials and Methods, 3 hours  
3 hours art history electives at the junior-senior level  
18 hours art studio 233, 234, 241, 251, 270, 372  
9 hours art studio electives selected as 300- or 400-level courses in the same studio discipline

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

**Minor in Art**

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

**ARTS AND SCIENCES INTERDISCIPLINARY PROGRAMS**

Rosemary DePaolo, Dean

**Minor in Cherokee Studies**

The minor requires 21 hours, including HIST 445, CHER 101, 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, 326; 414, and 12 hours of core electives from SOC 423, 448, 454, ANTH 417, 473, HIST 442, 445, 446, 451, 463, PSY 333, SOCW 402.

DEPARTMENT OF BIOLOGY
Roger H. Lumb, 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 Animal Physiology, 2 hours
315 Introduction to Plant Physiology, 1 hour
333 Cell and Molecular Biology, 3 hours
CHEM 136 General Chemistry, 4 hours

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

Computer Science/Statistics, 34 hours CS 150, 151, 250, MATH 270, 375, 310, PHYS 130, 131, and 8 hours of junior-senior biology electives.

Horticulture, 38 hours 8 hours selected from BIOL 413, 414, 415, 451, 455, and up to 30 hours in horticulture courses accepted in transfer with the approval of the department head. NOTE: Horticulture courses are not taught at Western Carolina University.

Mathematics, 30 hours MATH 153, 255, 262, CS 150, 8 hours of math/computer science electives, and 8 hours of junior-senior biology electives.

Parks and Recreation Management, 29 hours PRM 150, 250, 370, 440, 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, 36 hours BIOL 413, 414, CHEM 133, a physics course (additional to courses taken to meet general education requirements), ENVH 230, 310, 320, 330, 440, 460, 470, 483

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

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

Major in Biology, B.S.Ed. Degree

General education, 41 hours

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

The major requires 44 hours as follows:
130, 131 General Botany and General Zoology, 8 hours
232 General Ecology, 3 hours
242 Genetics and Evolution, 3 hours
311 Animal Physiology, 2 hours
315 Introduction to Plant Physiology, 1 hour
333 Cell and Molecular Biology, 3 hours
CHEM 135, 136 General Chemistry, 8 hours
PHYS 130, 131 Introductory Physics, 8 hours
Biology electives (8 hours) at the junior-senior level

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

Minor in Biology

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

DEPARTMENT OF CHEMISTRY AND PHYSICS

J. Roger Bacon, Acting Head


Major in Chemistry, B.A. Degree

General education, 41 hours

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

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

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

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

Major in Chemistry, B.S. Degree

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

The major requires 47 hours as follows
135, 136 General Chemistry, 8 hours
241, 242 Organic Chemistry I, II, 6 hours
271 Chemical Techniques, 2 hours
321 Inorganic Chemistry, 3 hours
352 Physical Chemistry I, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
432 Instrumental Analysis, 3 hours
453 Physical Chemistry II, 3 hours
495 Seminar in Chemistry, 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

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

Major in Industrial Chemistry, B.S. Degree

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

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

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

**Major in Physics, B.S. Degree**

General education, 41 hours

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

The major requires 49 hours as follows
230-231 General Physics, 8 hours
302 Electronics, 4 hours
310 Modern Physics, 3 hours
350 Atomic Physics, 4 hours
360 Laboratory Physics, 2 hours
410 Classical Mechanics, 3 hours
440 Electricity and Magnetism, 3 hours
495 Seminar in Physics, 1 hour

Physics electives (6 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 (21 hours), including at least 18 hours at the junior-senior level, are required to complete the program

**Major in Science Education (General Science), B.S.Ed. Degree (on inactive status)**

General education, 41 hours

Program requirements, 8 hours MATH 130, 140

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

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

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

**Chemistry, 46 hours**
135, 136 General Chemistry, 8 hours
241, 242 Organic Chemistry I, II, 6 hours
271 Chemical Techniques, 2 hours
321 Inorganic Chemistry, 3 hours
352 Physical Chemistry I, 3 hours
370 Analytical Spectroscopy and Chromatography, 3 hours
371, 372 Chemical Dynamics and Chemical Synthesis, 4 hours
432 Instrumental Analysis, 3 hours
495 Seminar in Chemistry, 2 hours
BIOL 130 or 131 or GEOL 150 or 155 (General Botany or General Zoology or Introduction to Physical Geology or Historical Geology), 4 hours
PHYS 130, 131 Introductory Physics, 8 hours

Geology, 51 hours
150, 155 Introduction to Physical and Historical Geology, 8 hours
252 Mineralogy, 4 hours
302 Geomorphology, 4 hours
371 Structural Geology, 4 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 Communication, B.S. Degree

General education, 41 hours

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

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

Concentrations, at least 21 hours selected from

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

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

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

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

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

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

**General Education, 41 hours**

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

The Theatre concentration requires 40 hours as follows

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

8 hours of CMTA junior-senior electives

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

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

**General Education, 41 hours**

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

**Required courses**

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

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

A concentration of 15 hours selected from one area

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

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

Lighting Design 6 hours from ART 131, MET 132, HEAL 250, IDS N 153, CMTA 332, 335, 435

Scene Design 6 hours from ART 131, MET 132, HEAL 250, IDS N 153, CMTA 332, 333, 433

Technical Production 6 hours from ART 131, MET 132, HEAL 250, CMTA 332, 6 hours from CMTA 330, 333, 335, 337

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

Minor in Communications

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

Minor in Theatre

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

DEPARTMENT OF ENGLISH

Gayle H. Miller, Acting Head


Major in English, B.A. Degree

Journalism Concentration
Major in English, B.S.Ed. Degree

General education, 41 hours

Program requirements, 9 hours minimum MFL 231-232 or 240 and CIS 293

The major requires 39 hours as follows
ENGL 251, 252, 307, 361, 362, 389 or 483, 497, CMCR 140, 301, 465, CMPM 302, and 6 hours selected from ENGL 306, 312, CMPM 303, 304, 305, or 493

To complete the program, a total of 39 hours is required, including a minimum of 18 hours of general electives, a minor, second major, or other approved program, and appropriate credits (21) at the junior-senior level

Major in English, B.A. Degree

Literature Concentration

General education, 41 hours

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

The major requires 39 hours as follows
ENGL 251, 252, 330, 12 hours selected from ENGL 361 or 362, 420, 431, 440, 441, 451, 470, 3 hours selected from ENGL 311, 312, 412, 415, 498, and 12 hours of junior-senior English courses, 6 of which must be literature

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 (18) at the junior-senior level

Major in English, B.A. Degree

Professional Writing Concentration

General education, 41 hours

Program requirements, 9 hours minimum MFL 231-232 or 240 and CIS 293

The major requires 39 hours as follows
MFL 231-232 or 240 and CMCR 250
ENGL 251, 252, 303, 307, 330, 389 or 483, 497, 12 hours selected from ENGL 305, 306, 308, 309, 310, 312, 401, 405, 493, and 6 hours selected from junior-senior English literature courses

To complete the program, a total of 39 hours is required, including a minimum of 18 hours of general electives, a minor, second major, or other approved program, and appropriate credits (18) 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 CMCR 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 Grammar for Writing, 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.
The Department of English offers the Minor in English, which is available to all majors
except English.

Minor in American Studies
The minor requires 18 hours, including ENGL 361, 362, and one junior-senior level
American literature course selected from ENGL 365, 463, 464, 479, or 480, and 9 hours from
other course offerings with a focus on the American landscape, life, history or culture,
including ANTH 417, 431, 461, 473, ART 314, ASI 493, 494, BIOL 251, 425, GEOG 400
(all of which have prerequisites), HIST 231, 232, 341, 432, 433, 434, 435, 436, 442, 443, 445,

Minor in English
The minor requires 18 hours of English courses, exclusive of ENGL 300 and those approved
for general education credit.
The following minors, also administered by the Department of English, are available to all
majors, with the exception of some concentrations in English or Communications, as listed
below.

Minor in Professional Writing
The minor requires 18 hours, including 12 hours selected from the following courses: ENGL
303, 305, 306, 307, 308, 309, 310, 312, 389, 401, 405, 483, 493, 497, and 6 hours from any
junior- or senior-level English course, exclusive of ENGL 300 and those approved for
general education credit (Not open to those pursuing the B A in English with a concentration
in Professional Writing)

Minor in Communications
See the listing in the Department of Communication and Theatre Arts

Minor in Creative Writing
The minor requires 18 hours, including 12 hours selected from the following courses: ENGL
303, 308, 309, 310, 405, 493, 497, and 6 hours of literature courses, exclusive of those
approved for general education credit (Not open to those pursuing the B A in English with
a concentration in Professional Writing)

Minor in Literature
The minor requires 18 hours of literature courses, exclusive of those approved for general
education credit (Not open to those pursuing the B A in English with a concentration in
Literature)

Minor in Journalism
The minor requires 18 hours, including 12 hours selected from the following courses: CMCR
140, 301, 465, CMPM 302, 303, 304, 305, 493, and 6 hours from the following courses
ENGL 303, 306, 307, 312, 389, 483, 497 (Not open to those pursuing the B S in
Communications--Print Media or the B A in English with a concentration in Journalism)

DEPARTMENT OF GEOSCIENCES AND ANTHROPOLOGY
Anne Rogers, Head
J Burr, R Gurevich, P Morris, N Mwanika, J Neff, V Peterson, J Reynolds, R Triplette,
P White, J Wilcox, S Yurkovich
Major in Geography, B.S. Degree

General education, 41 hours

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

The major requires 50 hours as follows
150 Environmental Geography, 3 hours
320 Map Interpretation, 3 hours
322 Cartography, 4 hours
324 Introduction to Remote Sensing, 4 hours
326 Research Methods in Geography, 3 hours
350 Economic Geography, 3 hours
440 Topics in Regional Geography, 3 hours

Geography electives (27 hours) at the junior-senior level  It is recommended that students develop a specialization within the major. An emphasis may be designed in consultation with the adviser, or a student may select one of the following
   Physical Geography  300, 302, 305, 400, 402
   International Studies  402, 440, and 444

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

Major in Geography-Planning, B.S. Degree

General education, 41 hours

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

The major requires 49 hours as follows
150 Environmental Geography, 3 hours
302 Geomorphology, 4 hours
305 Soils and Hydrology, 4 hours
320 Map Interpretation, 3 hours
322 Cartography, 4 hours
324 Introduction to Remote Sensing, 4 hours
326 Research Methods in Geography, 3 hours
350 Economic Geography, 3 hours
402 Conservation of Natural Resources, 3 hours
460 Urban and Regional Land Use Planning, 3 hours
462 Introduction to Urban Geography, 3 hours
464 Industrial Location and Community Development, 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 Introduction to Physical Geology, 4 hours
252 Mineralogy, 4 hours
371 Structural Geology, 4 hours
495 Senior Seminar in Geology, 3 hours
CHEM 135, 136 General Chemistry, 8 hours
Geology, Math or Science electives at the junior-senior level, 25 hours

General electives (22 hours), including at least 16 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, 18-22 hours  PHYS 130-131 or 230-231, either MATH 145, 146, 153 and 255 or MATH 145, 146, 170 and 171

The major requires 53 hours as follows

- CHEM 135 and 136, General Chemistry, 8 hours
- 150 Introduction to Physical Geology, 4 hours
- One freshman-level Geology elective, 3 hours
- 252 Mineralogy, 4 hours
- 352 Igneous and Metamorphic Petrology, 4 hours
- 371 Structural Geology, 4 hours
- 420 Sedimentation, 3 hours
- 421 Stratigraphy, 3 hours
- 483 Field Course, 4-6 hours, taken at another accredited institution with approval of the department head
- 495 Senior Seminar in Geology, 3 hours
- 498 Senior Thesis, 2 hours

Geology, math, or science electives at the junior-senior level, 11-13 hours

General electives (12-16 hours), including at least 5 hours at the junior-senior level, are required to complete the program.

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

General education, 41 hours

Program requirements, 6 hours  MFL 231-232 or 240

The major requires 36 hours as follows

- 250 Archeology and Bioanthropology, 3 hours
- 260 Cultural and Social Anthropology, 3 hours
- 341 History of Anthropological Theory, 3 hours
- 419 Comparative Family, 3 hours

Electives (6 hours) selected from 327, 349, 351, 365

Elective (3 hours) selected from 361, 431, 441

Elective (3 hours) selected from 380, 440, 466

Electives (6 hours) selected from 417, either 461 or 473, 464, 477

Anthropology electives (6 hours) in junior-senior courses

To complete the program, 45 hours are required, including a minor, second major, or other approved program and at least 18 hours of general electives. At least 21 hours of these courses taken must be at the junior-senior level.

**Major in Anthropology, B.S. Degree**

All the requirements for the degree are the same as those listed previously 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 18 hours, including GEOL 150, one other freshman-level geology course, 252, GEOG 150, 300
Minor in Geology
The minor requires 20 hours, including GEOL 150, one other freshman-level geology course, 252, and 9 hours of electives above the freshman level

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

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

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

DEPARTMENT OF HISTORY
Curtis Wood, Head

W Anderson, T. Blethen, D Dorondo, G Graham, E Hulbert, J Lewis, C Lovin, M Malone, G Schwartz, B Walton, M Williams

Major in History, B.A. Degree
General education, 41 hours
Program requirements, 6 hours MFL 231-232 or 240
The major requires 39 hours chosen from one of the following concentrations

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

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

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

Major in History, B.S. Degree
General Education, 41 hours
Program requirements, 4 hours MATH 170, 171
The major requires 39 hours chosen from one of the following concentrations

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

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

To complete the program, a total of 44 hours is required, including a minor, second major, or other approved program and general electives At least 21 hours of these courses must be at the junior-senior level
Minor in History
The minor requires 21 hours, including 221-222 or 231-232 and 15 hours of junior-senior history electives

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

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
Joseph Klerlein, Head


Major in Computer Science, B.S. Degree
General education, 41 hours

Program requirements, 17 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, 3 hours selected from one additional natural science course

The major requires 42 hours as follows

150 Problem Solving and Programming, 3 hours
151 Data Structures, 3 hours
250 Introduction to Computer Systems, 3 hours
303 Digital Logic, 3 hours
310 Discrete Structures, 3 hours
350 Introduction to Computer Organization, 3 hours
351 Introduction to Algorithms, 3 hours
352 Organization of Programming Languages, 3 hours
360 Theory of Computation, 3 hours
370 Operating Systems, 3 hours
479 Capstone, 2 hours
MATH 153 Calculus I, 4 hours
MATH 254 Matrix Theory, 3 hours
MATH 270 Statistical Methods I, 3 hours

To complete the program of study, one of the following is required

1 12 additional hours of computer science courses selected from CS 301, 304, 320, 340, 361, 389, 393, 441, 443, 451, 452, 453, 455, 460, 462, 463, 464, 465, 480, 493 and MATH 350, and 16 additional hours of general electives, or

2 a total of 28 additional hours, including a second major, minor, or other approved program

Major in Mathematics, B.S. Degree

General education, 41 hours

Program requirements, 15 hours  CS 150, PHYS 230, 231, BIOL 130 or 131 or CHEM 135 or GEOL 150 or 155

The major requires 37 hours in core courses as follows

153, 255, 256 Calculus I, II, III; 12 hours
250 Introduction to Logic and Proof, 2 hours
262 Introduction to Linear Algebra, 3 hours
310 Discrete Structures, 3 hours
320 Ordinary Differential Equations, 3 hours
361 Introduction to Abstract Algebra, 3 hours
370 Statistical Theory I, 3 hours
422 Advanced Calculus I, 3 hours
479 Capstone Seminar, 2 hours
Mathematics elective (3 hours) selected from 423, 461, 462, 470

To complete the program, one of the following is required
(1) 18 additional hours selected from MATH 331, 350, 375, 393, 411, 412, 423, 441, 461, 462, 470, and 17 hours of general electives, including a minimum of 13 hours at the junior-senior level, or
(2) a total of 35 hours, including a second major, minor, other approved program, and at least 12 hours of general electives. Of the total hours, 31 must be at the junior-senior level. In lieu of a second major or minor, students may choose to complete the professional education sequence and approved electives leading to teacher certification.

Major in Mathematics, B.S.Ed. Degree

General education, 41 hours

Program requirements, 11 hours CS 150, and PHYS 230-231

The major requires 41 hours as follows
153, 255, 256 Calculus I, II, III, 12 hours
250 Introduction to Logic and Proof, 2 hours
262 Introduction to Linear Algebra, 3 hours
270 Statistical Methods I, 3 hours
300 Problem Solving, 2 hours
310 Discrete Structures, 3 hours
361 Introduction to Abstract Algebra, 3 hours
411 Foundations in Geometry, 3 hours
422 Advanced Calculus I, 3 hours
479 Capstone Seminar, 2 hours
Math electives (5 hours) selected from 370, 386, 412, 423, 461, 462, 470

The professional education sequence (28 hours) for secondary and special subject teaching and 7 hours of general electives (3 hours at the junior-senior level) are required to complete the program.

Minor in Computer Science

The minor requires 18 hours, including CS 150, 151, 250, and 9 hours of other CS courses numbered above 250.

Minor in Mathematics

The minor requires 23 hours, including MATH 153, 250, 255, 256, and 9 hours of electives in mathematics courses numbered 254 or higher.

Computer Education Endorsement

The endorsement requires 18 hours, including CS 130, CS 150, CIS 301, CIS 365, EDEL 466, and 1 hour of CS 151 or CIS 251.

DEPARTMENT OF MODERN FOREIGN LANGUAGES

Suzanne Moore, Head

T. Gamble, P. Haberland, D. Littlejohn, R. Morgan, L. Morris, N. Norris, L. Sution, P. Umfress, K. Wilmath
Majors in French, German, and Spanish, B.A. Degree

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

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

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

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

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

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

The professional education sequence (28 hours) for special subject teaching and general electives (23 hours), including at least 3 hours at the junior-senior level, and EDEL 312 are required to complete the program

Minors in French, German, and Spanish

Each minor requires 21 hours, including 231-232 or 240, 301, 302, and 9 hours of junior-senior electives

DEPARTMENT OF MUSIC

Robert Kehrberg, Head


To major in music, students must pass an applied music audition in the performance principal area and take a music aptitude examination

All music majors must demonstrate the required level of piano proficiency for graduation in their chosen curriculum or elect piano every semester until the required proficiency is attained Each student must prepare a junior qualifying examination or recital in the principal
applied area for approval by the appropriate faculty committee before a degree will be granted. All students on the B.S.Ed and B.A. Applied Emphasis degree plans must prepare a senior performance examination or recital in the principal applied area for approval by the appropriate faculty committee.

Major in Music, B.A. Degree

General education, 41 hours

Program requirements, 6 hours MFL 231-232 or 240

The major requires 40 hours as follows
152, 153 Aural Skills Laboratory I, II, 2 hours
178 Beginning, Theoretical and Analytical Skills, 4 hours
252 Aural Skills Lab III, 1 hour
277, 278 Theory and Literature I, II, 6 hours
350, 351 Music History I, II, 6 hours
428 or 429 Choral or Instrumental Conducting, 3 hours
Principal performing medium, a minimum of 8 hours and completion of the junior qualifying examination

Applied music electives excluding ensembles (piano required unless it is the principal), 4 hours
Major ensemble, 6 hours

To complete the program, 41 hours, including a minimum of 24 hours at the junior-senior level, are required. One of the following options or concentrations must be completed:

Concentration. Applied Emphasis, must include 477 or 425 (3 hours), 305 (1 hour), 405 (1 hour), and junior- and senior-level applied principal (8 hours), 28 elective hours to include 12 hours exclusive of music courses.

Music Industry Option. ACCT 161, MKT 301, CIS 251, BA 133, LAW 230, MGT 300, MUS 378, 9 hours in MUS 489, 11 hours electives

Minor, second major, or approved program, 41 hours

Cooperative education may not exceed 6 hours

Majors in General and Instrumental Music, B.S.Ed. Degree

General education, 41 hours

The major requires 58 hours, including a 32-hour core and 26 hours in general or instrumental music as follows
152, 153 Aural Skills Laboratory I, II, 2 hours
168 String Class I, 1 hour
178 Beginning, Theoretical and Analytical Skills, 4 hours
252 Aural Skills Lab III, 1 hour
277, 278 Theory and Literature I, II, 6 hours
283 MIDI/Synthesis Class, 1 hour
350, 351 Music History I, II, 6 hours
428 or 429 Choral or Instrumental Conducting, 3 hours
470 Orchestration and Arranging, 2 hours

Major ensemble, 6 hours

Concentration selected from

General Music. 258, 259, 279, 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, 270, 271, 272, 273, 274, 326, 0-4 hours in piano or piano class, 0-5 hours in applied secondary electives, and 12 hours in the instrumental principal, including completion of the 300-level of proficiency. If the principal is a keyboard instrument, 3 hours in one secondary applied wind instrument or in percussion in lieu of piano class also are required. Band will be considered the major ensemble for keyboard principals in the instrumental curriculum.
The professional education sequence (25 hours) for secondary and special teaching, excluding EDSE (Methods), plus Music 325 and 1 hour of general electives, are required to complete the program.

Minor in Music

Precollege musical experience and formal training and permission of the head of the music department are required to enroll in the minor. The minor requires 22 hours, including 152, 153, 178, 277, 278 or 351, 4 hours of applied music in voice or an instrument, 4 hours in a major ensemble, and 2 hours of electives.

NATURAL RESOURCES MANAGEMENT PROGRAM

*Lawrence G. Kolenbrander, Program Coordinator*

*Peter C. Bates*

**Major in Natural Resources Management, B.S. Degree**

General education, 41 hours

Program requirements, 11 hours

- CHEM 135, MATH 170, 171, MGT 300

The major requires 64 hours, including 43 hours in core courses and a 21-hour concentration:

- BIOL 130 General Botany, 4 hours
- BIOL 131 General Zoology, 4 hours
- BIOL 232 General Ecology, 3 hours
- GEOG 150 Environmental Geography, 3 hours
- GEOG 305 Soils and Hydrology, 4 hours
- GEOG 324 Introduction to Remote Sensing, 4 hours
- GEOG 402 Conservation of Natural Resources, 3 hours
- MATH 130 College Algebra, 3 hours
- NRM 340 Natural Resource Measurements, 4 hours
- NRM 342 Computer Applications in NRM, 1 hour
- NRM 344 Introduction to Geographic Information Systems, 3 hours
- NRM 440 Integrated Resource Management, 4 hours
- NRM 442 Natural Resource Policy and Administration, 3 hours

Concentration, 21 hours, selected from:

- **Forest Resources**: BIOL 254, ECON 310, MGT 306, NRM 350, 352, 450
- **Water Resources**: BIOL 413, 414, 435, CHEM 136, 330, NRM 460, and 3 hours of designated junior-senior natural resources management courses
- **Land Use Planning**: GEOG 320, 350, 460, 462, 464, and 6 hours at the junior-senior level in economics, management, and geography

General electives (12 hours), including at least 1-2 hours at the junior-senior level, are required to complete the program.

ASSOCIATED AREA OF PHILOSOPHY AND RELIGION

*Michael Jones, Program Coordinator*

*J. McLachlan, D. Hale*

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

General education, 41 hours

Program requirements, 6 hours: MFL 231-232 or 240
The major requires 30 hours. Only grades of C or higher in philosophy courses will satisfy requirements for the major. The following courses are required:

- 231 Introduction to Ethics, 3 hours
- 304 Ancient Philosophy, 3 hours
- 306 Modern Philosophy, 3 hours
- 307 Nineteenth-Century Philosophy, 3 hours
- 493 Seminar in Philosophy, 3 hours

Philosophy electives at the junior-senior level, 12-15 hours

A logic requirement must be satisfied by passing either the logic examination or PHIL 232, Introduction to Symbolic Logic. To complete the program, a total of 51 hours is required, including a minor, second major, or other approved program, and at least 12 hours of general electives. Twenty-four to twenty-seven hours of these courses must be at the junior-senior level.

Minor in Philosophy

The minor requires 18 hours, including 231, 232, and 12 hours of electives selected from junior-senior philosophy/religion courses, or PSC 345 and 346.

DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC AFFAIRS

C. Don Livingston, Head
Gordon Mercer, Director of MPA

A. Hayes, S. LaMotte, J. Roberts, C. Stevens, K. Wink

Major in Political Science, B.A. Degree

General education, 41 hours

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

The major requires 33 hours as follows:
- 231 American Government and Politics, 3 hours
- 302 or 303 Problems and Policies of American Government or State and Local Government, 3 hours
- 315, 316, or 318 European Political Systems, Politics of Developing Areas, or Soviet Political Systems, 3 hours
- 331 or 332 International Politics or International Organization, 3 hours (331 is required for the concentration in international relations)
- 345 or 346 Ancient and Medieval Political Thought or Modern Political Thought, 3 hours

Electives, cooperative education, or internship in the area of the concentration, 6 hours

Concentration (12 hours) selected from:

- General Political Science Electives at the junior-senior level
- Public Administration: 304, 6 hours selected from 307, 336, and 421, and 6 hours of junior-senior electives
- International Relations: 6 hours selected from 332, 333, 334, 335, and 6 hours of junior-senior electives
- American Political Institutions: 6 hours selected from 305, 306, 407, 494, and 6 hours of junior-senior electives

To complete the program, a total of 48 hours is required, including at least 18 hours of general electives and a minor, second major, or other approved program. At least 27 hours of the courses selected must be at the junior-senior level.
**Major in Political Science, B.S. Degree**

Program requirements (4 hours) include MATH 170, 171 instead of a foreign language. The remainder of the requirements are the same as those stated above in the Bachelor of Arts degree program.

**Minor in Political Science**

The minor requires 21 hours in political science, including 231, 315, and 15 hours of junior-senior electives.

**SOCIAL SCIENCE PROGRAMS**

*James A. Lewis, Coordinator*

**Major in Social Sciences, B.A. Degree**

General education, 41 hours

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

The major requires 39 hours as follows:
- HIST 221, 222 European History, 6 hours
- Two of the following four groups: ECON 231-232, GEOG 150-250, PSC 231-315, SOC 231-350
- ANTH 260

Advanced electives (21 hours) including at least 6 hours in each of three areas: American history, anthropology, economics, foreign history, geography, political science, sociology.

To complete the program, a total of 42 hours is required, including a minimum of 18 hours of general electives and a minor, second major, or other approved program. At least 30 hours of the courses taken must be at the junior-senior level, to meet the 40 percent rule (see General University Degree Requirements).

**Major in Social Sciences, B.S. Degree**

All of the requirements for the degree are the same as those listed for the Bachelor of Arts program except that MATH 170 (3 hours) and MATH 171 (1 hour lab) are required, a foreign language is not required, and electives are increased by 2 hours.

**Major in Social Sciences, B.S.Ed. Degree**

General education, 41 hours

Program requirements, 9 hours: 6 hours in a foreign language exclusive of courses taken to meet general education requirements, CMCR 250

The major requires 48 hours as follows:
- PSY 250 General Psychology, 3 hours
- GEOG 102 World Regional Geography, 3 hours
- ANTH 260 Cultural and Social Anthropology, 3 hours
- HIST 221, 222 European History, 6 hours
- HIST 231 American History to 1865, 3 hours
- HIST 232 American History Since 1865, 3 hours
- PSC 231 American Government and Politics, 3 hours
- SOC 231 Principles of Sociology, 3 hours
- ECON 130 Survey of Economics, 3 hours

Advanced electives (18 hours) in two social sciences selected so that 12 hours are taken in one discipline and 6 hours in another.

The professional education sequence (28 hours) for secondary and special subject teaching and general electives (2 hours) are required to complete the program.
Major in Social Work, B.S. Degree

General education, 41 hours

Program requirements, 13 hours  
BIOL 134, SOC 231, PSY 250, MATH 170

The major requires 59 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
- 334 Human Behavior and the Social Environment, 3 hours
- 335 Social Work Research and Evaluation, 4 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
- 486, 487, 488 Field Experience, 12 hours
- 496 Field Seminar, 4 hours
- PSC 302 or 303 or 304 Problems and Policies of American Government or State and Local Government or Public Administration, 3 hours

9 hours of junior-senior level social work/sociology guided electives are required to complete the program.

General electives (15 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 SOC 231 and 18 hours of junior-senior electives.

Minor in Social Change

See requirements under Arts and Sciences Interdisciplinary Programs.
Minor in Race, Ethnic, and Gender Relations

See requirements under Arts and Sciences Interdisciplinary Programs.

Interdisciplinary Minor in Women's Studies

The minor requires 18 hours, including ASI 230, ENGL 477, HIST 451, SOC 326, and electives from ANTH 419, NSG 360, PSY 333, SOC 327, SOC 328, PSC 351, CMHC 414, and appropriate topics from ANTH 481, PSY 480, SOC 480, and CMPR 493.
COLLEGE OF BUSINESS

John A. Wade, Interim Dean

Purpose

The College of Business is committed to excellence in teaching, learning, research, and service. The college serves the educational needs of undergraduate and graduate students in accordance with the resources available to implement a relevant curriculum. Graduates are prepared to make an immediate and continuing contribution to today's business. They possess the curiosity and flexibility to learn and adapt in a changing environment.

Teaching

The college emphasizes teaching that reaches a wide range of students with differing skills and cultural backgrounds. Faculty members are sensitive to the educational needs of students and are dedicated to their academic development. Teaching, the college's most important endeavor, focuses on helping students compete in a global environment.

Research

The faculty generates creative, applied, historical, and instructional research to advance scholarship. Intellectual contributions are reviewed and utilized by peers.

Service

The college provides service to Western Carolina University and to constituencies in North Carolina, the United States of America, and other nations. Professional commitments and interactions with external organizations are encouraged.

Culture

The college is dedicated to an environment of professional and academic integrity, mutual respect, and ethical behavior. Individual freedom, equal opportunity, and responsible citizenship are enduring values. All individuals are encouraged to strive for continuous self-improvement as appropriate to their needs, talents, and stage of development.

Programs of study include:

- Bachelor of Science in Business Administration
- Bachelor of Science in Business Administration, Master of Business Administration, and Master of Project Management

In cooperation with the College of Education and Allied Professions, the Bachelor of Science in Education is offered in basic and comprehensive business education. All degree programs are provided in Cullowhee. Graduate programs are also available in Asheville.

Admission to B.S.B.A. Programs:

- Acceptance and registration in business administration courses or the declaration of intent to complete a business major do not guarantee admission to the Bachelor of Science in Business Administration programs.
- A student is not officially in the college until admitted as a candidate for the degree in a major program.

A student may be admitted to a degree program after completing a minimum of 30 hours at Western Carolina University with a 2.0 GPA on hours attempted. Applicants transferring directly from another accredited institution must have a 2.0 GPA on all work attempted at the previous institution. Transfer students who complete courses at the university before applying for admission to the College of Business must have a 2.0 GPA on hours attempted.

If less than 30 hours have been attempted at Western, a 2.0 GPA on hours attempted both at Western and at the other institutions is required.

Consistent with the policy on transfer of coursework, at least 30 semester hours of courses must be taken in the College of Business at Western Carolina University toward the B.S.B.A. or B.S. degree.

Application for graduation may be filed with the dean upon completion of 80 hours but must be filed no later than one month before the final semester of enrollment.

Students seeking a Bachelor of Science in Education degree with a major in business education must meet requirements of the College of Education and Allied Professions for admission to the professional sequence.
The Bachelor of Science in Business Administration Degree. This degree program requires the following:

- **General Education**: 41 hours
- **Foundation of Knowledge for Business**: 45 hours
- **Major Program of Study in Business**: 21 hours
- **Elective Courses**: 12 hours

Minimum requirements for B S B A Degree: 120 hours

**Foundation of Knowledge for Business courses are:**

- ACCT 251, 252 Accounting Principles I, II, 6 hours
- BA 404 Strategic Management, 3 hours
- CIS 251 Management Information Systems, 3 hours
- ECON 231, 232 Microeconomics and Macroeconomics, 6 hours
- ECON 235 Statistics, 3 hours
- FIN 305 Financial Management, 3 hours
- LAW 230 Legal Environment of Business, 3 hours
- MATH 130 College Algebra, 3 hours
- MGT 300 Introduction to Management, 3 hours
- MGT 305 Quantitative Business Analysis, 3 hours
- MGT 306 Behavioral Science in Organizations, 3 hours
- MKT 301 Principles of Marketing, 3 hours
- OA 304 Business Communications, 3 hours

At least 51 hours must be taken in coursework outside the College of Business. Courses taken within the College of Business to fulfill general education requirements may be counted as meeting this requirement.

Appropriate prerequisites must be completed and at least 56 hours are required for enrollment in all courses numbered 300 or above in the College of Business.

The B S B A degree program in international business will remain at 128 hours because of multiple college instructional agreements.

**Second Major in Business Administration.** The requirements for a second major in business administration are identical with the Foundation of Knowledge for Business courses previously identified. Substitutions may be made only with the approval of the dean of the College of Business.

**DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS**

*Phillip L. Little, Acting Head*

*J Beegle, J C Carland, J W Carland, D Coffee, R Crepeau, J Gould, E Jones, L Heinrichs, L Kauffman, W Perry, G Williams*

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

- General education, 41 hours
- Foundation of Knowledge for Business, 45 hours
- The following 21 hours in the major:
  - 275, 352, 353 Intermediate Accounting I, II, III, 9 hours
  - 355 Income Tax I, 3 hours
  - 356 Cost Accounting I, 3 hours
  - 454 Auditing I, 3 hours
  - 475 Advanced Accounting Projects, 3 hours
General electives (13 hours), including at least 9 hours at the junior-senior level

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

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major

- 256 Business Computer Programming, 3 hours
- 258 Applications Development I, 3 hours
- 358 Applications Development II, 3 hours
- 365 Computer Architecture, Communications, and Operating Systems, 3 hours
- 453 Data Base Management Systems, 3 hours
- 455 Computer Information Systems Analysis and Design, 3 hours
- 465 Information Resource Management, 3 hours

General electives (13 hours), including at least 12 hours at the junior-senior level

**DEPARTMENT OF BUSINESS ADMINISTRATION, LAW, AND MARKETING**

*James Busbin, Acting Head*

*D Burke, B Dunlap, R Higgs, J Hopper, J Hunter, R Kilpatrick, M Leonard, J McCreary, R McLaunin, M Nixon, R Noel, L Wilson, N Wright*

**Major in Business Education, B.S.Ed. Degree**

General education, 41 hours

Program requirements, 3 hours MATH 130

The major in business education, which includes a disciplinary focus area in economics, requires 57 hours as follows

- ACCT 251, 252 Accounting Principles I, II, 6 hours
- BA 404 Strategic Management, 3 hours
- ECON 231, 232 Introductory Micro and Macroeconomics, 6 hours
- ECON 235 Statistics, 3 hours
- FIN 305 Financial Management, 3 hours
- LAW 230 Legal Environment of Business, 3 hours
- MGT 300 Introduction to Management, 3 hours
- MGT 305 Quantitative Business Analysis, 3 hours
- MGT 306 Behavioral Science in Organizations, 3 hours
- MKT 301 Principles of Marketing, 3 hours
- OA 300 Word Processing, 3 hours
- OA 304 Business Communications, 3 hours
- OA 340 Information Processing Systems, 3 hours
- OA 402 Administrative Management and Policy, 3 hours
- Three upper-level electives in economics, 9 hours

The professional education sequence (27 hours) for secondary and special subject teaching is required to complete the program. **NOTE** This program requires a minimum of 128 hours

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

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major
LAW 331, 332 Business Transactions I, II, 6 hours
LAW 415 Legal Aspects of Business Management, 3 hours
Electives (12 hours) selected from the following
Select 3 hours from the following theory courses: LAW 302, 305, 405, 412, 480
Select 6 hours from the following applied courses: LAW 303, 315, 320, 389, 393, 403, 410, 440, 483, 484, 485 (with no more than 3 hours total from LAW 483-484-485)
Select 3 hours from any law course (with no more than a total of 3 hours from the entire 21 hours from LAW 483-484-485)

General electives (13 hours), including at least 6 hours at the junior-senior level

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

General education, 41 hours
Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major
302 Marketing Communications, 3 hours
303 Marketing Research, 3 hours
304 Consumer Behavior, 3 hours
405 Marketing Management, 3 hours
Marketing electives (9 hours) selected from 306, 403, 404, 406, 407, and 409

General electives (13 hours), including at least 6 hours at the junior-senior level

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

General education, 41 hours
Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major
300 Word Processing, 3 hours
340 Information Processing Systems, 3 hours
393 Topics in Office Administration or approved elective, 3 hours
401 Office Systems and Simulations, 3 hours
402 Administrative Management and Policy, 3 hours
403 Business Research and Reports, 3 hours
483 Internship or approved elective, 3 hours

General electives (13 hours), including at least 6 hours at the junior-senior level

Minor in Business Law

The minor, open to nonbusiness majors only, requires 18 hours, including Law 230, two theoretical upper-level law courses (from Law 302, 305, 405, 412, or 415) and three applied upper-level-law courses (from Law 303, 315, 320, 331, 332, 403, 410, or 440)

*Minor in Marketing

The minor, which is open to nonbusiness majors only, requires 21 hours including ECON 231, MKT 301, MKT 405 and 12 hours of marketing electives at the junior-senior level approved by the department head

*Depending on the electives selected, course prerequisites may add additional hours. Please check the catalog description for specific requirements.
DEPARTMENT OF ECONOMICS, FINANCE, AND INTERNATIONAL BUSINESS

Max Schreiber, Acting Head


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

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in one of the two following concentrations

Business Economics 302, 303, 304, and 12 hours in junior-senior economics electives approved by the adviser

Entrepreneurial Studies LAW 331, MGT 401, MKT 403, 404, CIS 466, FIN 409, approved FIN or ECON elective

General electives (13 hours), including at least 6 hours at the junior-senior level

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

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in one of the two following concentrations

Corporate Finance ECON 303, FIN 405, 495, ACCT 301, 9 hours electives selected from FIN 406, 407, 409, 325, 335, ACCT 275, 352, 356, ECON 302

Financial Planning ECON 303, FIN 300, 335, 400, 406, 496, 3 hours electives selected from LAW 403, FIN 302, ACCT 355, 356, FIN 325

General electives (13 hours), including at least 6 hours at the junior-senior level

Second Major in Economics

The second major, which is open only to nonbusiness majors, requires 33 hours as follows

231 Introductory Microeconomics and Social Issues, 3 hours

232 Introductory Macroeconomics and Social Issues, 3 hours

235 Statistics, 3 hours

303 Money, Financial Markets, and Economic Policy, 3 hours

ACCT 251, 252 Accounting Principles I, II, 6 hours

MGT 300 Introduction to Management, 3 hours

LAW 230 Legal Environment of Business, 3 hours

Economics electives (9 hours) at the junior-senior level

Minor in Economics

The minor, which is open only to nonbusiness majors, requires 18 hours including 231, 232, 235, 303, and 6 hours of economics electives at the junior-senior level

Major in International Business, B.S.

General education, 41 hours
Foundation of Knowledge for Business, 45 hours

One year (6 hours) of modern foreign language from FREN, GERM, or SPAN 231, 232, or 240

The following 24 hours in the major

ECON 309 International Economics, 3 hours
MGT 301 International Management, 3 hours
Two courses chosen from the following
FIN 407 International Finance, 3 hours, LAW 320 Multinational Corporate Law, 3 hours,
MKT 407 International Marketing, 3 hours, BA 304 Business Communication in a
Multicultural Environment, 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 350 Economic Geography, 3 hours
GEOG 440 Topics in Regional Geography Europe, 3 hours
GEOG 444 Political Geography, 3 hours
HIST 317 History of 20th-Century International Relations, 3 hours
HIST 411 Western Imperialism, 3 hours
HIST 416 Europe in the 20th-Century, 3 hours
MFL 321 or 322, French, German, or Spanish Civilization, 3 hours
PSC 315 European Political Systems, 3 hours
PSC 316 Politics of Developing Areas, 3 hours
PSC 332 International Organization, 3 hours
PSC 333 International Law, 3 hours
PSC 335 Problems in World Politics, 3 hours
PSC 436 Dynamics of World Order, 3 hours
SOC 434 Regional and Societal Development, 3 hours

General electives (12 hours) including at least 9 hours at the junior-senior level outside the
College of Business  NOTE  This program requires a minimum of 128 hours

DEPARTMENT OF MANAGEMENT

Jerry Kinard, Head

J Adams, W Kane, T Kinnear, B Little, G Mechling, S Owens, J Pearce, R Routheaux,
H Smith

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

General education, 41 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major

304 Personnel Management, 3 hours
400 Organization Theory, 3 hours
402 Production and Operations Management, 3 hours
495 Seminar in Management, 3 hours
Electives (9 hours) selected from 301, 302, 401, 405, 407, and MKT 405

General electives (13 hours), including at least 6 hours at the junior-senior level

Minor in Management

The minor, open to nonbusiness majors only, requires 18 hours including MGT 300, 304, 306,
and 9 hours of approved management electives
COLLEGE OF EDUCATION AND ALLIED PROFESSIONS

Gurney Chambers, Dean
Marilyn Feldmann, Associate Dean

The College of Education and Allied Professions seeks to prepare professional personnel for the schools and colleges of the state and region and for other educational and service agencies. It coordinates all teacher education curricula at the university and provides services to individuals, schools, and regional educational and professional agencies. It undertakes continuous evaluation to assure curricula and professional services of high quality and coordinates the screening, selection, and counseling of students pursuing programs of study in the school.

The Bachelor of Science and Bachelor of Science in Education degrees are awarded upon completion of the undergraduate programs offered in the college. The Bachelor of Science degree is awarded in psychology, sport management, recreational therapy, 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. An endorsement in computer education (18 hours) can be obtained if the individual holds a license in another teaching area.

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.

Disciplinary Focus Area. A disciplinary focus area is a 24-hour course of study in an academic discipline required of education students enrolled in a B S Ed program in communication disorders, business, elementary, middle grades, physical education, or special education. The disciplinary focus areas available are the following: Anthropology, Art, Biology, Economics, English, French, Geography, Geology, German, History, Mathematics, Philosophy, Political Science, Psychology, Sociology, Spanish, Speech, and Theatre. A disciplinary focus area declaration form must be completed and filed in the dean’s office. A listing of the course requirements for each disciplinary focus area is available in the Office of the Dean, College of Education and Allied Professions.

Admission to the Teacher Education Program. Acceptance and registration in a department do not guarantee admission to the teacher education program in that department. A student is not officially in a teacher education program until approved by the head of the department of the student’s major and by the Teacher Education Council. The applicant’s fitness for teaching in the chosen area is determined on the basis of demonstrated academic ability and other personal characteristics conducive to effective teaching. A student may be considered suitable in one area and unsuitable in another. Students with speech defects that will interfere with successful teaching may be required to take corrective therapy.

Students are eligible for admission to the teacher education program if they have (1) completed at least 35 hours of general education requirements, (2) earned a C or higher grade in ENGL 101, 102, and also in ENGL 300 if required to take this course, (3) completed at least 45 earned hours, (4) earned a GPA of 2.50 on hours attempted, (5) achieved the minimum score on the Reading, Writing, Mathematics tests of the PRAXIS, and (6) completed a personal interview and received a satisfactory evaluation from the teacher education faculty.
Students must meet all requirements for admission prior to earning 90 hours of credit. Applicants already holding non-teacher education degrees must meet all of these requirements except they are not required to take the Reading, Writing, Mathematics tests of the PRAXIS. They must have had a GPA of 2.50 at the time of graduation.

Students should apply for admission to the teacher education program no later than the semester in which they are enrolled in EDCI 231, a course that is prerequisite to all other courses in the professional education sequence. Students may not take more than one-half of the total number of hours required in the professional education sequence, excluding student teaching and the seminar, until they have met all requirements for admission. That is, the maximum number of hours in the professional education sequence that a student may take before meeting all requirements for admission is: Elementary or Middle Grades major—five hours, special education or communication disorders major—three hours, secondary (9-12) or special subjects (K-12) major—seven hours if the methods course is two hours, eight hours if the methods course is three hours.

The requirements stated above are the minimum to be met in order to apply and be considered for admission to the teacher education program.

Students must have maintained satisfactory conduct and citizenship records which are in keeping with the ethics of the teaching profession. A student who is readmitted to the university after dismissal, suspension, or expulsion will not be readmitted to the teacher education program the first term after returning.

Application forms are available in the dean's office. The student should process the application as indicated on the form and file it in the dean's office two weeks before early registration for the term in which admission is sought or by the date designated each term by the dean.

Continuation in the Teacher Education Program. The requirements for continuing in the program are: (1) a GPA of at least 2.50 on hours attempted, (2) behavior which adheres to the code of ethics of the profession, and (3) satisfactory participation in the required professional laboratory program that is prerequisite to student teaching. An evaluation of each field experience assignment will become a part of the student's professional record.

If a student fails any course in the professional education sequence twice, the student is withdrawn from teacher education.

Course Requirements in the Program. The teacher education program requires a professional education sequence of 9 to 28 hours in courses pertinent to teaching in specific areas and at various levels. All courses in the sequence except student teaching and the student-teaching seminar must be completed before admission to student teaching. The courses in the sequence are determined by the student's major.

Communication Disorders, 9 hours EDCI 231, PSY 320, 321

Elementary and Middle Grades, 23 hours EDCI 231, PSY 320, 321, SPED 335, EDEL 490, 495

Special Education, 21 hours EDCI 231, PSY 320, 321, SPED 490, 495

Secondary and Special Subject Teaching, 27-28 hours EDCI 231, PSY 320, 321, SPED 335, EDRD 323, *Methods, EDSE 490, 495

*Students majoring in biology, science, social sciences take EDSE 322. Other students take the special methods course offered in their major department.

Field Experience Requirement. The teacher education program requires field experiences in conjunction with several courses in addition to the student-teaching requirement. Students are expected to make their own arrangements for transportation and housing and absorb the costs related to field experiences and student teaching. Each program has different...
requirements, and students should discuss costs with the program head prior to applying for admission to the teacher education program.

**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 requirements for admission to student teaching are (1) enrollment in the professional education sequence for at least two semesters, (2) completion of at least 90 hours in a teacher education curriculum, (3) one term in residence, (4) a GPA of 2.50 or above, both at the beginning of the term immediately preceding the student teaching term and at the time of enrollment in student teaching, (5) completion of at least two-thirds of the major, (6) completion of all records designated by the director of field experiences, (7) removal of conditions placed on the student at the time of admission to the teacher-education program, (8) completion of the applicable professional education sequence except for student teaching and the student teaching seminar, and (9) completion of all competency requirements in the media lab, including computer competencies. Student teaching assignments are made only in school systems within the WCU service area.

**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 Licensure.**

To be eligible for teacher licensure, a student must (1) complete one of the approved teacher-education programs, (2) make a minimum grade of C in student teaching, (3) receive a public school recommendation indicating that student teaching was successful, (4) complete applications for licensure and file them with the dean of the College of Education and Allied Professions, (5) receive a recommendation from the head of the department of the teaching major, (6) achieve the minimum score on the PRAXIS Tests, (7) receive a professional recommendation for Class A licensure by the dean of the College of Education and Allied Professions, (8) pay the fee required by the State Board of Education for the issuance of a teacher license.

**North Carolina Teaching Fellows.**

North Carolina Teaching Fellows must complete requirements in addition to those for regular teacher education students.

**DEPARTMENT OF ADMINISTRATION, CURRICULUM, AND INSTRUCTION.**

Donald M. Chalker, Head


**Major in Secondary and Special Subject Teaching, B.S.Ed. Degree.**

Degree requirements are as specified for the respective degree programs in the appropriate departmental sections of this catalog.

The subject areas in which majors are available are

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<th>Special Subject Teaching (grades K-12)</th>
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<td>Biology</td>
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<td>Business*</td>
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<td>English</td>
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<td>Home Economics*</td>
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<tr>
<td></td>
<td>Special Education</td>
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<td>(General)</td>
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</tbody>
</table>
Students seeking or holding a degree other than a Bachelor of Science in Education may be admitted to the teacher education program and earn teacher certification. Consult your adviser or department head.

DEPARTMENT OF ELEMENTARY AND MIDDLE GRADES EDUCATION

Lester L. Laminack, Head

B Bell, M Coulter, R Dumas, V Faircloth, B Houghton, G Houston, R McCreary, E Manring, C Meigs, J Perlmuter, J Pilch, T Rose, G Schuncke, M Wood

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

General Education, 41 hours

The major requires 40 hours as follows
- EDEL 303 Literature for Children and Youth, 3 hours
- EDEL 312 Elementary School/Methods and Curriculum, 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
- MATH 230 Theory of Arithmetic I, 3 hours
- MATH 231 Theory of Arithmetic II, 3 hours
- MUS 301 Basic Skills, 2 hours
- ART 363 Art for Children, 2 hours

In order to complete the program, the following are required
1. Completion of an approved disciplinary focus area, 24 hours,
2. The professional education sequence for elementary education majors, 23 hours

Major in Middle Grades Education, B.S.Ed. Degree

General education, 41 hours

The major requires 18 hours in core courses as follows
- EDEL 310 Middle School 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 EDEL 303, EDEL 467, EDRD 334, EDRD 443, EDRD 453, and EDRD 474. Students holding or eligible for certification in other areas may also obtain certification in reading. For information contact the head of the Department of Elementary and Middle Grades Education.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

David Claxton, Head

T Beckman, S Brown, J Bryant, C Cavanaugh, M Creason, A DeGraffenreid, T DeSchrver, A Durner, S Hodgson, P Hopkins, A Jacobs, E Kesgen, K LeClair, J McClung, S McPherson, H Meaders, B Peele, S Pe\$ons, M Phipps, M Speit, O Spilker, B Tholkes, L Travis, C Tuten, D Williamson, A Wood

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

General education, 41 hours

The major requires 35-36 hours as follows
HEAL 250 First Aid and Safety Education, 2 hours
HEAL 312 Comprehensive Health Education, 3 hours
PE 251 Dance Dynamics, 3 hours
PE 261, 262, 263 Skills Acquisition I, II, III, 3 hours
PE 311 Measurement and Evaluation, 2 hours
PE 312 Foundations of Health and Physical Education, 3 hours
PE 345 Elementary Physical Education, 3 hours
PE 335 Anatomy and Physiology, 4 hours
PE 353 Methods and Teaching Analysis of Team and Individual Sports, 3 hours
PE 423 Kinesiology, 2 hours
PE 424 Methods in Adaptive Physical Education, 2 hours
PE 405 Outdoor Leisure Pursuits, 1 hour
PE 425 Exercise Physiology, 2 hours
PE 435 Motor Learning, 2 hours
PE 102 or passing score on Aquatic Proficiency Test, 0-1 hour (Aquatic Proficiency is satisfied by successful completion of PE 261)

In order to complete the program, the following are required
Disciplinary Focus Area, 24 hours,

Departmental aquatic proficiency test or PE 102

All majors are encouraged to be active in intramural programs. Juniors and seniors must be in good standing as members of the Physical Education Majors Club. All majors must be active in a varsity sport or serve as an intramural assistant for at least two full years (one year for transfer students with previous varsity experience), or serve as an assistant in the Adult Fitness or Cardiac Rehabilitation program.

The professional education sequence (28 hours) for secondary and special subject teaching

Major in Parks and Recreation Management, B.S. Degree

General education, 41 hours

Program requirements, 11-12 hours. HEAL 250 or 255, MATH 170, CIS 251, SOC 231

The major requires 52 hours as follows
PRM 150 Career Opportunities in Parks and Recreation Management, 1 hour
PRM 250 Foundations of Parks and Recreation Management, 3 hours
PRM 254 Intro to Outdoor Pursuits Education (w/lab), 3 hours
PRM 270 Leadership and Group Dynamics in Recreation, 3 hours
PRM 361 Prog Planning & Eval in Parks and Recreation Management, 3 hours
PRM 370 Internship Orientation, 1 hour
PRM 383 Internship in Parks and Recreation Management (mini-internships) (1, R3 hours)
PRM 430 Entrepreneurship and Commercial Recreation, 3 hours
PRM 433 Outdoor Recreation, 3 hours
PRM 461 Mgt and Administration of Parks and Recreation Management Services, 3 hours
PRM 480 Independent Study, 3 hours
PRM 483 Internship in Parks and Recreation Management, 3 hours or 484, 485
PRM 495 Senior Seminar in Parks and Recreation Management, 1 hour
SM 435 Events and Facilities Management, 3 hours
RTH 253 Activity Skills for Special Populations, 2 hours
ACCT 161 Accounting for the Non-business Major, 3 hours
MKT 301 Principles of Marketing, 3 hours
ENGL 401 Writing for Careers, 3 hours
SM 415 Legal Issues for the Sport Practitioner, 2 hours
SOC 385 Methods of Social Research, 3 hours

Concentrations, at least 12 hours selected from the following

Program Leadership  SM 315, PRM/SM 330, RTH 360 required, 3 hours selected from
PE 353, PRM 420, 440, 434, 435

Outdoor Leadership and Instruction  PRM 321 required,
Choose Outdoor Pursuits Option or Camping Option
Outdoor Pursuits Option  PRM 420 required, 6 hours selected from PRM
425, 426, 434, 435, 486 or RTH 470
Camping Option  PRM 314 required, 6 hours selected from PRM 313, 425,
426, and RTH 470

Commercial Recreation and Tourism  PRM 440 required,
Choose Resort Option or Entrepreneur Option or Adventure Tour Option
Resort Option  9 hours selected from HM 130, ND 231, PRM/SM 330, HE
493, SM 315, RTH 360
Entrepreneur Option  BA 133, MGT 401, PRM 485
Adventure Tour Option  9 hours selected from PRM 425, 426, 434, 435,
and 486

Recreation Resource Management (12 hours) An approved area of study tailored to suit
specific land agencies such as the National Parks Service, Forest Service, Bureau of Land
Management, Bureau of Indian Affairs, state parks, and Army Corp of Engineers

General electives, 12 hours, at least 9 hours at the junior-senior level are required to complete
the program

Minor in Parks and Recreation Management
The minor requires 21 hours, including PRM 150, 250, 270, 461, SM 315, 415, 435, and
3 hours selected from PRM 430, 433 or 440

Major in Recreational Therapy, B.S. Degree

General education, 41 hours
Program requirements, 14 hours  COUN 430, BIOL 291, 292, CDFR 364
The major requires 60 hours as follows
RTH 253 Psychomotor Activity Skills, 2 hours
RTH 340 Foundations of Recreational Therapy, 3 hours
RTH 352 Recreational Therapy Processes and Techniques, 3 hours
RTH 360, Recreational Therapy Services for the Elderly, 3 hours, or RTH 470 Adventure-
Based Recreational Therapy, 3 hours, or RTH 481 Independent Study, 3 hours
RTH 385 Pre-Internship Seminar, 1 hour
RTH 417 Administration of Recreational Therapy Services, 3 hours
RTH 450 Advanced Methods in Recreational Therapy, 3 hours
RTH 484 Recreational Therapy Clinical Internship, 6 hours
RTH 485 Recreational Therapy Clinical Internship, 6 hours
PRM 250 Foundations of Parks and Recreation Management, 3 hours
PRM 270 Leadership and Group Dynamics in Recreation, 3 hours
PRM 321 Outdoor Education and Interpretation, 3 hours
PSY 250 General Psychology, 3 hours
PSY 470 Abnormal Psychology, 3 hours
HSCC 220 Medical Terminology, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSCC 370 Introduction to Pharmacology, 2 hours
HEAL 250 First Aid and Safety Education, 2 hours
ENGL 401 Writing for the Careers, 3 hours
PE 423 Kinesiology, 2 hours

General electives (13 hours) are required to complete the program.

Major in Sport Management, B.S. Degree

General education, 41 hours

Program requirements, 12 hours  ACCT 161 or 251, CIS 293 or 301, ECON 231, CMCR 250

The major requires 62 hours as follows
Core courses, 41 hours
SM 260 Introduction to Sport Management, 3 hours
SM 313 Psychological Aspects of Sport, 3 hours
SM 380, 383, or 389 Independent Study, Apprenticeship, or Cooperative Education, 1 hour
SM 415 Legal Issues for the Sport Practitioner, 2 hours
SM 423 Sociology of Sport, 3 hours
SM 460 Financial Aspects of Sport, 3 hours
SM 461 Sport Marketing Promotions, 3 hours
SM 484, 485 Internship in Sport Management, 12 hours
SM 495 Sport Management Seminar, 2 hours
MKT 301 Principles of Marketing, 3 hours

Concentration (21 hours) selected from

Athletic Administration  SM 213, 315, 435, MKT 302, 304, 306, LAW 315

Athletic Training  HSCC 240, ND 330, PE 423, 425, SM 213, 383, 413, PE 335 or BIOL 291 and BIOL 292


Exercise Science and Fitness Management  CHEM 132, 133, PE 423, 425, ND 330, PE 335 or BIOL 291 and BIOL 292  Two courses selected from the following  PE 104, 105, 114, 115, 116, 118, 261  (Courses selected for general education requirements may not be utilized)

Professional Sport Management  MKT 302, MKT 304, 306, 405, LAW 315, SM 435, and CMPR 360

Recreational Sport Management  PRM 254, 270, 461, RTH 253, SM 315, 330, 435, and one credit selected from PE 102 through 129, 204, 207 through 210, 261, 262, 263  (Courses selected for general education requirements may not be utilized)
Sales ACCT 251, MGT 400, MKT 302, 304, 306, LAW 230, one course selected from SM 380, 383, 389

Sports Information CMCR 140, 301, CMPM 303, 304, 305, and CMPR 360 Three credits selected from PE 122 or 209, 123 or 210, 223, 225, 262, 263

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

*If a student intends to select an internship in coaching, a coaching minor is required

Minor in Coaching
The minor requires 20 hours, including HEAL 250, PE 213, 313, 335, SM 415, and two courses selected from PE 410, 411, 418 The minor is not open to physical education majors

Minor in Physical Education
The minor requires 20 hours, including HEAL 250, PE 312, 325, 345, 353, 435, SM 415, and choice of two from PE 261, 262, 263

Minor in Recreational Therapy
The minor requires 18 hours, including RTH 340, 352, 417, PRM 250, 321, and 3 hours of guided electives

Minor in Health Education
This program is on inactive status and no new students are being enrolled

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 North Carolina certification in learning disabilities and mental retardation

General education, 41 hours

Special education major, 36 hours as follows

240 The Exceptional Child, 3 hours
310 Evaluation of the Exceptional Child, 3 hours
312 Teaching Elementary Children with Learning Problems (K-6), 3 hours
401 Introduction to Learning Disabilities, 3 hours
405 Introduction to Mental Retardation, 3 hours
413 Teaching Adolescents with Learning Problems, 3 hours
417 Managing Classrooms for Exceptional Children, 3 hours
450 Individual Educational Plans for Students with Disabilities, 3 hours
486 Practicum in Mental Retardation, 1 hour
487 Practicum in Learning Disabilities, 2 hours
EDEL 318 Elementary/Middle Grades Mathematics, 3 hours
EDRD 474 Practicum in Teaching Reading, 3 hours
Guided electives, 3 hours
The professional education sequence (21 hours), a disciplinary focus area (24 hours), and 6 general elective hours are required to complete the program.

**Major in Learning Disabilities, B.S.Ed. Degree**

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

**Major in Mental Retardation, B.S.Ed. Degree**

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

**Major in Communication Disorders, B.S.Ed. Degree**

*This is a preprofessional program. Licensure and certification by the State of North Carolina and the American Speech-Language-Hearing Association require successful completion of a master’s degree. Enrollment in EDCD 485 requires completion of a minimum of 25 hours of supervised observation of clinical experience and a cumulative GPA consistent with current program requirements.*

General education, 41 hours

The major requires 37 hours as follows:
- **SPED 240 The Exceptional Child**, 3 hours
- **EDCD 270 Introduction to Communication Disorders**, 3 hours
- **EDCD 301 Speech and Language Development**, 3 hours
- **EDCD 320 The Clinical Process**, 3 hours
- **EDCD 370 Phonetics**, 3 hours
- **EDCD 371 Articulation/Phonological Disorders**, 3 hours
- **EDCD 372 Speech Science**, 3 hours
- **EDCD 450 Introduction to Audiology**, 3 hours
- **EDCD 471 Anatomy and Physiology of the Speech Mechanism**, 3 hours
- **EDCD 474 or 478, Voice Disorders or Fluency Disorders**, 3 hours
- **EDCD 476 Language Disorders in Children**, 3 hours
- **EDCD 485 Clinical Practicum in Communication Disorders**, 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.

**Minor in Special Education**

The minor in special education requires 18 hours, including SPED 240, 310, 401, 405, and 6 hours of guided electives.

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**DEPARTMENT OF PSYCHOLOGY**

*M K Randolph, Head*


**Major in Psychology, B.S. Degree**

General education, 41 hours

The major requires 39 hours as follows:
- **250 General Psychology**, 3 hours
251, 252 Research Methods I, II, 6 hours
495 Senior Seminar in Psychology, 3 hours

Psychology Electives
Developmental, 3 hours selected from 320, 325, 327
Social, 3 hours selected from 310, 313, 333
Experimental, 3 hours selected from 440, 444, 448, 455
Clinical, 3 hours selected from 363, 430, 441, 470, 474
Others, 15 hours excluding 101, 105

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

Applied/Developmental Psychology 21 hours selected from 320, 325, 327, 333, 360, 363, 426, 441, 460, 474, 482

Minor in Gerontology
The minor requires 24 hours, including PSY 260, CDFR 364 or PSY 325, PSY 252 or SOC 385 or NSG 470, at least one course from the Biological Perspective--ND 330, NSG 393, PE 335, at least one course from the Social-Psychological Perspective--CDFR 469, PSY 327, PSY 426, SOC 494, at least one course from the Interventions Perspective--EMC 430, NSG 405, SOCW 329, RTH 253, RTH 360, and one applications course--CDFR 483, 484, 485, NSG 480, PSY 482, 483, 484, 485, SOC 483, 484, 485, SOCW 483, 484, 485

Minor in Life Span Development
The minor requires 24 hours, including PSY 325, 3-6 hours selected from PSY 327, 393, 6-9 hours selected from PSY 331, 333, 426, 470, 474, CDFR 261, 469, COUN 450, and 3-6 hours in PSY 482, 483, or approved courses named above

Minor in Psychology
The minor requires 24 hours, including 250, 251 (or equivalent), 252 (or equivalent), and 15 hours of approved psychology electives
THE GRADUATE SCHOOL*

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. The Education Specialist degree in school administration, and supervision are offered and the Doctor of Education in Leadership is scheduled to begin fall semester 1996.


Master of Arts in Education: Majors in Educational Administration (two-year college), Counseling (school), Elementary Education, Middle Grades Education, 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, and Physical Education and individually approved Multi-Disciplinary Study.

Master of Business Administration

Master of Health Sciences: Options in education, management, nutrition.

Master of Music Education

Master of Physical Therapy

Master of Project Management

Master of Public Affairs

Master of School Administration

Education Specialist: School Administration and Supervision

Doctor of Educational Leadership Degree

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 require a higher GPA. Departments also require some form of standardized test such as GMAT, GRE, or MAT. Please consult the Graduate Catalog Issue of The Record 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

*Complete information will be found in the Graduate Catalog Issue of The Record available from the office of the dean.
all credentials should be submitted to the Graduate School not later than six weeks prior to the opening of the term in which the student expects to enroll. Some programs have application deadlines. Applicants should contact the graduate school to determine these programs.

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 (clinical and school), M.S. in Biology, and M.S. in Chemistry. 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 Health Sciences, the Master of Music Education, the Master of Science in Applied Mathematics, the Master of Science in Communication Disorders, the Master of Science in Home Economics, and the Certificate of Advanced Study in School Counseling.

A reading knowledge of a foreign language is required for the following programs: M.A. in American History, and the M.A. in English. Other degree programs do not require proficiency in a foreign language.

All degrees may be completed with a minimum of 30 to 75 semester hours of graduate study. However, applicants may be required to take additional course work to strengthen their academic background.
COURSE DESCRIPTIONS

All courses offered by the university are listed below. For the full description of graduate courses, refer to the graduate catalog. If the entry for an undergraduate course does not carry the full description, refer to the listing for the field of study designated by the parenthetical course prefix and number.

Numbering System. Each course is identified by means of a course prefix and a three-digit number. The first digit of the number designates the level of the course and indicates the minimum class rank a student should have achieved to enroll in the course.

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<td>Noncredit courses which are not applicable to degrees</td>
</tr>
<tr>
<td>100-199</td>
<td>Courses for freshmen</td>
</tr>
<tr>
<td>200-299</td>
<td>Courses for sophomores</td>
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<tr>
<td>300-399</td>
<td>Courses for juniors</td>
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<tr>
<td>400-499</td>
<td>Courses for seniors</td>
</tr>
<tr>
<td>500 and above</td>
<td>Courses for graduate students only</td>
</tr>
<tr>
<td>700-799</td>
<td>Specialist degree and post-master's degree courses</td>
</tr>
</tbody>
</table>

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 101-130 and 201-229. The category of general education to which each course applies may be found in the general education requirements section. The applicable category also is indicated by the parenthetical code at the end of each course description.

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
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<tbody>
<tr>
<td>F1</td>
<td>Written Communication</td>
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<td>F2</td>
<td>Mathematics</td>
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<td>F3</td>
<td>Oral Communications</td>
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<td>F4</td>
<td>Computer Literacy</td>
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<td>F5</td>
<td>Leisure and Fitness</td>
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<td>F1a</td>
<td>Human Behavior</td>
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<td>P1b</td>
<td>Contemporary Institutions</td>
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<td>P2</td>
<td>Physical and Biological Sciences</td>
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<tr>
<td>P3a</td>
<td>Humanities</td>
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<td>P3b</td>
<td>Fine/Performing Arts</td>
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<td>P4</td>
<td>Comparative Cultures</td>
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<td>P5</td>
<td>The Human Past</td>
</tr>
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</table>

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.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
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<tr>
<td>80-82</td>
<td>Independent study and directed-readings courses</td>
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<tr>
<td>83-89</td>
<td>Internships, practica, and special applied field projects</td>
</tr>
<tr>
<td>90-92</td>
<td>Student teaching</td>
</tr>
<tr>
<td>93-94</td>
<td>Special topics courses</td>
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<tr>
<td>95-98</td>
<td>Seminars</td>
</tr>
<tr>
<td>699</td>
<td>Thesis</td>
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</tbody>
</table>

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 of 120 or 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.
<table>
<thead>
<tr>
<th>Prefix</th>
<th>Field of Study</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT</td>
<td>Accounting</td>
<td>Accounting and Information Systems</td>
</tr>
<tr>
<td>ANTH</td>
<td>Anthropology</td>
<td>Geosciences and Anthropology</td>
</tr>
<tr>
<td>ART</td>
<td>Art</td>
<td>Art</td>
</tr>
<tr>
<td>ASI</td>
<td>Arts and Sciences</td>
<td>College of Arts and Sciences</td>
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<tr>
<td>AST</td>
<td>Astronomy</td>
<td>Chemistry and Physics</td>
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<td>BA</td>
<td>Business Administration</td>
<td>Business Administration, Law, and Marketing</td>
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<tr>
<td>BIOL</td>
<td>Biology</td>
<td>Biology</td>
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<tr>
<td>CDFR</td>
<td>Child Development and Family Relations</td>
<td>Human Environmental Sciences</td>
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<tr>
<td>CHEM</td>
<td>Chemistry</td>
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<tr>
<td>CHER</td>
<td>Cherokee Languages</td>
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<td>Chinese Languages</td>
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<tr>
<td>CIS</td>
<td>Computer Information</td>
<td>Accounting and Information Systems</td>
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<td>CJ</td>
<td>Criminal Justice</td>
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<td>Clinical Laboratory Sciences</td>
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<td>CMCR</td>
<td>Communication Core</td>
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<td>Electronic Media</td>
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<td>CS</td>
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<td>Mathematics and Computer Science</td>
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<td>Clothing, Textiles, and Merchandising</td>
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<td>Elementary and Middle Grades Education</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 252.

293 Topics in Accounting (1-3, R3)

301 Financial Statement Analysis (3)
Short-term liquidity, cash flow from operations, funds flow, capital structure, long-term solvency, return on investment, asset utilization, and operating performance. PREQ 252. COREQ FIN 405, 495.

352 Intermediate Accounting II (3)
Theory applied to current and long-term liabilities, plant property and equipment, intangible assets, and stockholders equity. PREQ 275.

353 Intermediate Accounting III (3)
Theory in revenue recognition, error analysis, tax allocation, pensions, leases, price-level reporting, statement of cash flows, consolidations, and topics of current interest. PREQ 352.

355 Income Tax I (3)
Federal tax on individual incomes, capital gains and losses, income averaging, amendments, deductions, exemptions, withholdings, income concepts; depreciation.

356 Cost Accounting I (3)
Budgeting, systems design, responsibility accounting and motivation, standard costing, variance analysis, cost behavior patterns, relevant costs, contribution analysis, and income effects of costing alternatives. PREQ 252.

361 Not-For-Profit Accounting (3)
Accounting principles as applied to governmental agencies and other nonprofit organizations. PREQ 252.

389 Cooperative Education in Accounting (1 or 3, R15) See Cooperative Education Program.

454 Auditing I, II (3, 3)
Theory, practice, and procedures in independent audits, standards, professional ethics, and internal control. PREQ 352.

465 CPA Problems (3)

466 Income Tax II (3)

467 Cost Accounting II (3)
475 Advanced Accounting Projects (3)
The strategic use of accounting in the business environment, integration of accounting concepts, principles and theory, application of accounting skills in practice  
PREQ 353  
COREQ 454

480 Independent Research in Accounting (3)
PREQ Accounting major, permission of department head

483 Accounting Internship (3, 3, 3)
484 Supervised work or research experience in applications of accounting theory  
S/U  
485 grading  
PREQ Junior standing, 2.0 GPA, formal application, and permission of department head  
Minimum of 10 hours per week

493 Topics in Accounting (1-3, R6)
PREQ Permission of department head

Graduate Courses
601 Financial Analysis (3)  
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 Comparative Cultural Systems (3)
Analysis and comparison of the major features of diverse human cultures  (P4)

250 Archeology and Bioanthropology (3)
Evolutionary theory, human genetics, primatology, fossil humans, and early civilizations

260 Cultural and Social Anthropology (3)
Survey and comparison of social, political, economic, religious, and artistic achievements to provide understanding of cultural diversity

327 Economy and Society (3)
Types of economic systems examined and compared, emphasis on preindustrial and industrializing societies  
PREQ 260

341 History of Anthropological Theory (3)
Concepts, theories, and schools of thought in historical context, contributions to contemporary anthropology  
PREQ 250, 260

349 Applied Anthropology (3)
Examination of problems and solutions in programs of directed social and cultural change, case studies  
PREQ 260

351 Cultural Ecology (3)
Relationships between physical environment and culture, nonphysiological means of environmental adaptation  
PREQ 250, 260, or SOC 231

361 World Prehistory (3)
Survey of cultural developments in society from the dawn of man to the advent of modern civilization

365 Religion, Magic, Myth (3)
Nonliterate religious tradition and ritual behavior, life-crisis rituals, secret societies, magic and witchcraft, notions of divinity  
PREQ 260
379 (ART 379) Cherokee Arts and Crafts (3)
Present-day Cherokee skills of woodcarving, basketry, pottery making, and other arts
and crafts taught by native craftsmen, historical development in relation to other aspects
of Cherokee culture and society 1 Lecture, 5 Lab

380 (SOC 380) Ethnographic Research Methods (3)
Theory and method, techniques of observation, description, interviewing, notetaking,
and analyzing data, planning and completing a field study PREQ 260 or SOC 231

389 Cooperative Education in Anthropology (1 or 3, R15) See Cooperative Education
Program

414 (SOC 414) Minority Groups (3)

417 Southern Appalachian Culture (3)
Stability and change in the sociocultural institutions of the region PREQ 260 or SOC 231

419 Comparative Family (3)
The family as a social institution in various cultures PREQ 260 or SOC 231

431 North American Prehistory (3)
Cultural history of the peoples of prehistoric North America, including Mexico PREQ 250

440 Archeological Field Techniques (3)
Basics of field work, surveying, photography, excavation, recording, and preservation
techniques PREQ Permission of instructor

441 Archeological Problems and Analyses (3)
Experience in collecting and analyzing relevant archeological data PREQ Permission
of instructor

461 Indians of North America (3)
Traditional and changing life styles of native North Americans, environmental adapta-
tions, social organizations, religions, and arts PREQ 260

464 Cultures of South Asia (3)
The cultures of India, Pakistan, Ceylon, Nepal, Afghanistan, and other South Asian
countries PREQ 260

466 Folklore (3)
Major forms, theories, and functions of lore among the world’s cultures, collection,
classification, and analysis of folklore PREQ 260 or permission of instructor

473 Contemporary Cherokee Culture and Society (3)
Present-day Cherokee culture and society, effects of tourism and the reservation system
on life styles PREQ 260

477 Cultures of Subsaharan Africa (3)
Cultural diversity and development in Subsaharan Africa from earliest times to the
present

481 Independent Study in Anthropology (1-2, R6)
PREQ Written application, approval of instructor and adviser

483 Anthropology Internship (3, 3, 3)
Application of academic training in an approved agency under faculty supervision

485 Credit toward anthropology major or minor limited to 3 hours S/U grading 9 hours
per week per course

493 Topics in Anthropology (3, R6)
PREQ Permission of instructor
Graduate Courses
514 (SOC 514) Minority Groups (3)  
517 Southern Appalachian Culture (3)  
519 Comparative Family (3)  
531 North American Prehistory (3)  
540 Archeological Field Techniques (3)  
541 Archeological Problems and Analyses (3)  
561 Indians of North America (3)  
565 Cultures of South Asia (3)  
566 Folklore (3)  
573 Contemporary Cherokee Culture and Society (3)  
577 Cultures of Subsaharan Africa (3)  
581 Independent Study in Anthropology (1-2, R6)  
593 Topics in Anthropology (3, R6)  

Art (ART)
102 Non-Western Art (3)  
Style, symbolic expression, and attitudes toward mankind's relationship to nature in North America, Africa, and the South Pacific  (P4)  

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

104 (308) Introduction to the Visual Arts (3)  
Introduction to the visual arts through an analysis of artists and their works, methods of visual expression, and examination of critical thinking as applied to visual form and content  (P3b)  

120 Beginning Drawing and Sketching (1)  
Experiments with a variety of drawing materials to familiarize the nonmajor with various approaches  2 Lab  (F5)  

124 Beginning Ceramics (1)  
Introduction to clay forming, firing, and glazing techniques for nonmajors  2 Studio  (F5)  

125 Introduction to Calligraphy (1)  
Basic calligraphy for nonmajors as appreciation of letter forms in visual elements  2 Studio  (F5)  

131 Introductory Drawing (3)  
The investigation of both traditional and nontraditional methods of drawing with emphasis on the nature of drawing as a way of seeing and organizing ideas and perceptions  6 Studio  

132 Two-Dimensional Design (3)  
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  

136 Art History Survey I (3)  
Ancient, medieval, and non-European art  

137 Art History Survey II (3)  
Western art, Renaissance through modern  

141 Figure Drawing (3, R6)  
Analytical and compositional life drawing based on the human form using varied media, study of anatomy, master drawings and the use of the figure for purposes of design and expression  PREQ 131  6 Studio  

142 Three-Dimensional Design (3)  
Traditional and nontraditional studio techniques, tools, and media Emphasis is placed on problem solving through studio activity and relating art theory and criticism to the studio  6 Studio  

233 Introductory Painting (3)  
Emphasis on color theory and the materials and techniques of painting Historical concerns are integral parts of directed and individual investigations  PREQ 131, 132 or permission of instructor  6 Studio
234 Introductory Printmaking (3)
Materials and methods of various printmaking techniques as they relate to historical and contemporary issues  PREQ 131, 132, or permission of instructor  6 Studio

241 Introductory Sculpture (3)
Principles and processes of sculpture, supported by critical thinking, class critique, historical and contemporary references  6 Studio

251 Introductory Ceramics (3)
Basic principles of ceramics technical, critical, and historical  6 Studio

263 Introduction to Art Education (1)
Introduction to current art education topics and approaches for teaching art in the traditional and nontraditional settings  2 Studio  Spring only

270 Communication Design (3)
Principles of visual communications including structure, typography, color and semantics, emphasis on developing an understanding of the scope of graphic design including theory, practice, and technology  PREQ 132  6 Studio

306 Renaissance Art (3)
The Renaissance in Italy and northern Europe, major trends and personalities in art and architecture  PREQ 137 or permission of instructor

309 Seventeenth and Eighteenth Century Art (3)
Major baroque and rococo artists, architects, landscape and urban designers in Europe  PREQ 137 or permission of instructor

312 Nineteenth Century Painting (3)
Major figures and styles in European painting  PREQ 137 or permission of instructor

314 American Painting (3)
From colonial limners to contemporary art  PREQ 137 or permission of instructor

316 Development of Modern Art: Painting, Sculpture, and Architecture (3)
From Manet, Rodin, and Richardson to Post-Modernism in painting, sculpture, and architecture  PREQ 137 or permission of instructor

317 Origins of Modern Sculpture (3)
Academic sculpture in the 19th century Modernist innovations from Rodin to David Smith  PREQ 137 or permission of instructor

319 History of Design (3)
Survey of the development of graphic design from prehistory through contemporary visual communications, topics include typography, photography, illustration and current conceptual and art historical issues  PREQ 137 or permission of instructor

330 Intermediate Drawing (3, R6)
The history and functions of drawing, drawing as a method of developing ideas and as an end itself, relationship to other media  PREQ 141  6 Studio

333 Intermediate Painting (3, R6)
Materials, techniques and aesthetic issues of painting in contemporary and abstract modes with focus on personal interpretation and perception  PREQ 233  6 Studio

334 Intermediate Printmaking (3, R6)
Exploration of various printmaking techniques with focus on personal interpretation and perception  PREQ 234  6 Studio

342 Intermediate Sculpture (3, R6)
Materials, techniques, and aesthetic issues of sculpture in contemporary and abstract modes with focus on personal interpretation and perception  PREQ 241  6 Studio
350 Fibers (3, R6)  
Exploration of weaving techniques and structural forms in fibers combined with the history of weaving and the critical evaluation of projects 6 Studio

351 Intermediate Ceramics (3, R6)  
Study of ceramics within a historical and contemporary context, emphasis on clay-forming techniques combined with class discussion and criticism  PREQ 251 6 Studio

352 Jewelry and Metalsmithing (3, R6)  
Basic principles of jewelry and metalsmithing, technical, critical, and historical 6 Studio

354 Glass (3, R6)  
Basic techniques of glassblowing and flat glass  Conceptual, technical, critical, and historical issues will be emphasized 6 Studio  PREQ Permission of instructor

363 Art for Children (2)  
Fundamentals for designing and implementing lessons to teach art to children in all educational settings  Teaching diverse multicultural populations discussed 4 Studio

367 History and Philosophy of Art Education (3)  
A study of art education as influenced by educational, philosophical, and socioanthropological developments throughout history  PREQ 263, 363 Spring only

370 Graphic Design Studio Procedures (3)  
Equipment, materials, and procedures of the professional graphic design studio  Focus on creative expression and critical thinking through photomechanical and production techniques of the graphic arts industry  PREQ 270 6 Studio

371 Intermediate Graphic Design (3)  
Study of typography's interface with drawing and photography through contemporary modes of visual communication  Readings, research, and discussions on critical thinking and aesthetic theory  PREQ 270, 370, or permission of instructor 6 Studio

372 Introductory Photography (3)  
Camera operation, film processing, and darkroom printing combined with classroom critiques, emphasis on historical and current trends of black and white photography 6 Studio

373 Introductory Illustration (3)  
Focus on the development of concepts through methods of visual expression as a means of communicating ideas, problem-solving approaches with an emphasis on drawing, painting, color, and other modes of illustration  PREQ 131 6 Studio

374 Typography (3)  
Comprehensive lettering, structural arrangements, typography, and scale, phototype-setting, computer-generated type, and other procedures, emphasis on typography in communication combining theoretical studies with applied problems 6 Studio

379 (ANTH 379) Cherokee Arts and Crafts (3)  

389 Cooperative Education in Art (1 or 3, R15) See Cooperative Education Program

416 Contemporary Art (3)  
Contemporary directions in the visual arts since 1945, emphasis on trends during the past five years  PREQ 137 or permission of instructor

433 Advanced Painting (3, R6)  
Emphasis on the exploration of abstract or figurative modes of painting and critical thinking within a contemporary context  PREQ 333 6 Studio
434 Advanced Printmaking (3, R6)
Study of selected printing media through independent, self-directed projects under faculty supervision  
PREQ 334  6 Studio

440 Advanced Drawing (3, R6)
Perceptual and conceptual drawing design problems, emphasis on a drawing project augmented by discussion, readings, and critique  
PREQ 330  6 Studio

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

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

458 Hand Papermaking (3, R6)
Dyeing, painting, molding, casting, forming, and other techniques for handmade paper

460 Computer Graphics Practicum (3, R6)
Production and experimentation with computer-generated imagery and investigation of software programs  
6 Studio

463 Art Education Planning, Materials, and Methods (3)
Curriculum planning and an exploration of suitable art media and methods for teaching art to diverse populations  
PREQ 263, 363  6 Studio

470 Package Design (3)
Fundamentals of package design and construction, use of materials, methods, and graphic procedures, experimentation, investigation, and critical interpretation of two- and three-dimensional forms  
PREQ 370 or permission of instructor  6 Studio

471 Advanced Graphic Design (3)
Emphasis on personal exploration of materials and methods related to visual communications  
PREQ 371  6 Studio

472 Intermediate Photography (3, R6)
Emphasis on personal direction and advanced technical problems  
PREQ 372 or permission of instructor  6 Studio

473 Intermediate Illustration (3, R6)
Emphasis on personal interpretation and advanced technical solutions to guided projects  
PREQ 141, 373  6 Studio

474 Portfolio (3)
A portfolio of creative work formulated and executed by the student with instructor supervision, required of all students concentrating in graphic design, available to all studio majors  
PREQ Permission of instructor  6 Studio

476 Advanced Photography (3, R6)
Emphasis on personal interpretation and advanced technical solutions to guided projects  
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  Submitted proposal must be approved by instructor

483 Art Internship (3, 3, 3)
484 Directed work experience in a professional design studio  
485 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, R12)
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. PREQ Permission of instructor 6 Studio

495 Art History Seminar (3, R6)
Detailed study of a topic in art history or criticism. PREQ Permission of instructor, senior standing

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) 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)
655 Weaving Problems (3, R6) 666 Photography Problems (3, R6)
667 Graduate Photography (3, R9) 680 Independent Study in Art Education (3, R6)
681 Graduate Problems in Art (3) 682 Independent Study in Art History (1-6)
696 Graduate Seminar in Art History (3, R6) 697 Seminar in Art Education (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 131 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)

230 Introduction to Women’s Studies (3)
Introduction to a variety of disciplinary perspectives as they affect the status and roles of women in society

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

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

494 Topics in Cherokee Studies (3, R6)
Various topics in Cherokee Studies such as anthropology, history, sociology, and literature. Juniors will not be allowed to enroll in this course. PREQ Permission of instructor.
Graduate Courses
593 Topics in American Studies (3, R6)
594 Topics in Cherokee Studies (3, R6)

Astronomy (AST)

101 Descriptive Astronomy (3-4)
Characteristics of solar stellar systems examined in terms of the technologies and attitudes of man. 3 Lecture, 2 Lab (optional) (P2)

301 Modern Astronomy (3)
Techniques of measurement and research. PREQ 250 2 Lecture, 1 Lab

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 (lab is optional) (P2)

107 (307) Classical Experiments in Biology (3)
Classical experiments used as the basis for exercises involving analysis of scientific reasoning, the scientific method, and experimental design (F3)

108 Recreational Botany (1)
Identification of native plants on campus and in the field using popular plant guides, derivation of plant names, food and medicinal uses of plants. Two Saturday hikes required. 2 Field (F5)

130 General Botany (4)
Diversity in plants, structure, phylogeny, classification, life histories, and aspects of the physiology of algae, fungi, bryophytes, and vascular plants. 3 Lecture, 3 Lab

131 General Zoology (4)
Evolutionary relationships, functional morphology, physiology, and natural history of the major groups of animals, dissections and other lab exercises emphasize functional morphology. 3 Lecture, 3 Lab

132 Human Genetics in Society (3)
Study of the inheritance and development of human characteristics and of the relationships of genetics to society. PREQ 101 or permission of instructor

133 Environmental Biology (3)
Ecosystem function in relation to human activities. Energy, biogeochemical cycles, population dynamics, evolution, biodiversity, and extinction in relation to human population growth, resource use, and impact on the environment

134 Principles of Biology (4)
Introduction to cell biology, genetics, and human systems biology. 3 Lecture, 2 Lab

213 Techniques of Biological Photography (3)
Basic techniques in photographic theory as applied to scientific documentation emphasizing 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 and human role in the biosphere. PREQ 130, 131, or permission of instructor. 2 Lecture, 3 Lab
242 Genetics and Evolution (3)  
Processes of inheritance and evolution, experiments with various animals, plants, and bacteria  
PREQ 130, 131, or permission of instructor  
2 Lecture, 3 Lab

251 Natural History of the Southern Appalachians (4)  
Interdisciplinary study of this unique environment, on-site studies, scheduled pack trips  
PREQ 130 or 131  
2 Lecture, 6 Lab

254 Dendrology (4)  
Structure, distribution, identification, and economic uses of major forest trees of the United States, emphasis on regional species  
2 Lecture, 6 Lab/field

291 Human Anatomy and Physiology (4, 4)  
292 The skeletal, muscular, digestive, circulatory, respiratory, excretory, integranive, and reproductive systems  
3 Lecture, 3 Lab

311 Animal Physiology (2)  
Principles of homeostasis, cell and tissue communication systems, contractility, respiration, excretion, and metabolism in animals  
PREQ 131, CHEM 136

313 Microbiology in Health and Nutrition (3)  
Morphological, cultural, biochemical, and staining characteristics of microorganisms, emphasis on those that infect man and occur in water, food, and dairy products  
PREQ Permission of instructor  
2 Lecture, 3 Lab

315 Introduction to Plant Physiology (1)  
Introduction to plant metabolism, conduction, development, and defense mechanisms  
PREQ 130, CHEM 136  
1 Lecture, 1 Lab

333 Cell and Molecular Biology (3)  
Viral, prokaryotic, and eukaryotic cell structure, DNA structure and replication, RNA and protein synthesis, control of gene expression  
Structure and function of specific cell types  
PREQ 130, 131, and 242 or permission of instructor  
2 Lecture, 3 Lab

361 (CHEM 361) Principles of Biochemistry (3)  

373 Invertebrate Zoology (4)  
Morphology, physiology, behavior, ecology, and evolution of invertebrates  
PREQ 131  
2 Lecture, 6 Lab

374 Vertebrate Zoology (4)  
Morphology, physiology, behavior, ecology, and evolution of vertebrates  
PREQ 232, 242, and 311, or permission of instructor  
2 Lecture, 6 Lab

389 Cooperative Education in Biology (1 or 3, R15)  
See Cooperative Education Program

413 Principles of General Microbiology (2)  
Survey of microorganisms emphasizing morphology, physiology, immunology, and ecology, microorganisms and disease, environmental and applied microbiology  
Not open to students with credit in 313

414 Methods of General Microbiology (2)  
Microscopy, morphological, cultural, physiological, and serological characteristics of microorganisms, microbiology of food, milk, water, and soil  
COREQ 413  
6 Lab

415 Plant Physiology (4)  
Aspects of plant metabolism, water relationships, transport, development, and defense mechanisms  
PREQ 130, CHEM 136  
3 Lecture, 3 Lab

417 Biochemistry (3)  
The metabolism of carbohydrates, lipids, nucleic acids, and proteins in plant and animal systems  
PREQ 232, 242, 311, and CHEM 242, 271, or permission of instructor
419 **Cell Biology** (4)
Structure and function, techniques for the study of cells; PREQ 311 3 Lecture, 3 Lab

425 **Flora of the Southern Appalachians** (4)
Taxonomy of the flowering plants of the region, family relationships, use of keys for identification, and recognition, collection, documentation, and preservation of specimens. One weekend field collecting trip; PREQ 130 2 Lecture, 6 Lab

434 **Terrestrial Ecology** (4)
Population, ecosystem, community structure, and dynamics, major North American biomes, field and descriptive methods, required weekend field trips; PREQ 232, 242, 311 2 Lecture, 6 Lab/field

435 **Aquatic Ecology** (4)
Biological, physical, and chemical components and processes in lakes and streams, field studies of local lakes and their biota; PREQ 232 2 Lecture, 6 Lab

443 **Evolutionary Processes** (3)
Mechanisms of evolution, emphasis on current research and hypotheses such as group and kin selection, r and K selection, and sympatric speciation; PREQ 232, 242, 311

451 **Biology of Fungi** (4)
Slime molds and true fungi; life histories, morphology, host-parasite relationship, fine structure, and phylogeny; PREQ 130

452 **Plant Anatomy** (4)
Plant cells, tissue organization in phylogenetic perspective, botanical microtechniques; PREQ 130 3 Lecture, 3 Lab

453 **Principles of Systematics** (4)
Principles and methods used in describing animal and/or plant taxa and in testing hypotheses of evolutionary relationship, individual research projects on the systematics of selected taxa; PREQ 242 3 Lecture, 3 Lab

455 **Vascular Plants** (4)
Biology of higher plants; club and small club mosses, quill worts, scouring rushes, ferns, gymnosperms, and angiosperms in living and fossil form; PREQ 232, 242, 311 3 Lecture, 3 Lab

457 **Biology of Algae** (4)
Life history, structure, reproduction, and phylogeny of the algae; PREQ 130 3 Lecture, 3 Lab

466 **Aquaculture** (1)
Commercial practices for the intensive production of fish, review of the elements involved in aquaculture systems with examples of aquatic farming and examination of problems related to industry; PREQ 131, 232, or permission of instructor

467 **Biostatistics** (3)
Statistical concepts and methods for biologists; Design of experiments for computer analysis by ANOVA, single or multiple regression, principal components; An elementary statistics course is recommended; 2 Lecture, 2 Lab

470 **Biology of Arthropods** (4)
Functional morphology, physiology, natural history, and systematics of the arthropods, field/lab emphasis on spiders; PREQ 131 2 Lecture, 6 Lab

471 **Animal Behavior** (4)
Mechanisms, development, functional significance, and evolution of behavior, individual research projects, films, and discussions in lab; PREQ 131 or permission of instructor 3 Lecture, 3 Lab
475 Animal Development (4)
Development in animals, gametogenesis, fertilization, cleavage, gastrulation, organogenesis, embryonic adaptations, differentiation, and growth   PREQ 311, 232, 242  3 Lecture, 3 Lab

476 Contemporary Fisheries (3)
Biological concepts and alternative management practices involved in the protection, conservation, restoration, augmentation, and cultivation of fisheries resources  PREQ 131, 232, or permission of instructor  2 Lecture, 2 Lab

478 Histology (4)
Vertebrate microscopic anatomy, emphasis on mammals, study of microscopic slides  PREQ  131  2 Lecture, 6 Lab

480 Research in Biology (2, R6)
PREQ  Junior standing, permission of research director

493 Studies in Biology (1-6, R12)
PREQ  Permission of department head

495 Introduction to Senior Thesis (1)
Designed to introduce experimental design and assist in selection of a senior thesis project  PREQ  Permission of department head

498 Senior Thesis I (2)
Directed research conducted in the first semester of the senior year  PREQ  Permission of department head

499 Senior Thesis II (1)
Senior thesis and oral presentation following completion of directed undergraduate research  PREQ  498

Graduate Courses
513 Principles of General Microbiology (2)
514 Methods of General Microbiology (2)
515 Plant Physiology (4)
517 Biochemistry (3)
519 Cell Biology (4)
525 Flora of the Southern Appalachians (4)
534 Terrestrial Ecology (4)
535 Aquatic Ecology (4)
543 Evolutionary Processes (3)
551 Biology of Fungi (4)
553 Principles of Systematics (4)
555 Vascular Plants (4)
557 Biology of Algae (4)
566 Aquaculture (1)
567 Biostatistics (3)
570 Biology of Arthropods (4)
571 Animal Behavior (4)
576 Contemporary Fisheries (3)
578 Histology (4)
589 Cooperative Education in Biology (3, R6)
593 Advanced Studies in Biology (1-6, R12)
612 Principles of Chemical Ecology (3)
613 Molecular Biology (3)
614 Principles of Chemical Ecology Laboratory (2)
632 Biogeography (3)
672 Ichthyology (4)
693 Topics in Biology (1-6, R12)
694
697 Introduction to Graduate Studies in Biology (2)
699 Thesis Research (3, R12)

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

204 Oral Communication (3)
Oral communication theory and practice  PREQ  ENGL 101 (F3)

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)
505 Economics and Public Policy (2-3, R5)
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, and legislation and administra-
tive 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 and civil litigation

303 Consumer Protection (3)
General products liability laws, federal and state legislation and 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, and critical legal studies, and 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  PREQ
230 or permission of instructor

331 Business Transactions I (3)
Law of contracts, commercial paper, security interests in property, and The Uniform
Commercial Code

332 Business Transactions II (3)
Business organizations, agency law, government regulations, legal liability, and bank-
ruptcy  PREQ  331

389 Cooperative Education in Business Law (1 or 3, R15)  See Cooperative Education
Program

393 Topics in Business Law (1-3, R6)

402 Hospitality Law (3)
Legal issues and litigation affecting the hospitality industry  PREQ  230
403 Property and Estates (3)
Legal aspects of buying and selling real estate, federal and state taxation, and estate planning and administration

405 Rights of the Individual (3)
Philosophical and historical aspects of individual rights, and 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, and government regulations and fiduciary obligations  PREQ  Junior standing

415 Legal Aspects of Business Management (3)
Comprehensive study of legal considerations in developing and managing a business

440 Labor Law (3)
Legal aspects of industrial relations, arbitration, bargaining, strikes, and labor practices, mediation and conciliation of employment disputes

480 Independent Research in Business Law (3)
PREQ  Business law major, permission of department head

483 Internship in Business Law (3, 3, 3)
484 Supervised experience in applications of previously studied theory  S/U grading
485 PREQ  Junior standing, 2.0 GPA, permission of department head  Minimum of 10 hours per week

Graduate Courses
630 International Law (3)
693 Topics in Business Law (1-3, R6)
695 Seminar in Business Law (3)

Chemistry (CHEM)
101 Chemistry in Society (3-4)
Introduction to chemistry emphasizing the impact of chemistry and scientific reasoning on society  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  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  PREQ  132 or 135  3 Lecture, 3 Lab

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

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

371 Chemical Dynamics (2)
Measurements and data treatment of the dynamics (e.g., kinetics, thermodynamics) of
chemical systems  PREQ 370 6 Lab

372 Chemical Syntheses (2)
Multistep synthesis of inorganic and organic compounds  PREQ 370 6 Lab

380 Research in Chemistry (2, R8)
Chemical research projects for individual students  PREQ 2.5 GPA in major and
permission of instructor  6 Lab

389 Cooperative Education in Chemistry (1 or 3, R15)  See Cooperative Education
Program

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

432 Instrumental Analysis (3)
Theory and practice of modern chemical instrumentation, electrochemistry, spectro-
scopic 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 and selected topics emphasizing relationships be-
tween 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 and applications of thermodynamics  PREQ 352, MATH 255, and PHYS 230  COREQ 421

454 Computer Interfacing (3)
Digital logic, computer design and interfacing with laboratory instruments  PREQ Permission of instructor  2 Lecture, 3 Lab

493 Topics in Chemistry (1-3, R6)
PREQ Junior standing and permission of department head  1-3 Lecture, 6-0 Lab

495 Seminar in Chemistry (1, R4)
2 Seminar

Graduate Courses

532 Instrumental Analysis (3)  652 Graduate Physical Chemistry (3)
541 Advanced Organic Chemistry (3)  691 Topics in Chemical Education (1-3, R9)
542 Introduction to Organic Polymers (3)  692 Topics in Inorganic Chemistry (3, R6)
551 Biophysical Chemistry (4)  693 Topics in Analytical Chemistry (3, R6)
553 Physical Chemistry II (3)  694 Topics in Organic Chemistry (3 R6)
554 Computer Interfacing (3)  695 Topics in Physical Chemistry (3, R6)
589 Cooperative Education in Chemistry (3, R6)  696 Seminar (1, R3)
593 Topics in Chemistry (1-3, R6)  698 Research in Chemistry (3, R9)
621 Graduate Inorganic Chemistry (3)  699 Thesis (3, R9)

Cherokee (CHER)

101 Cherokee Language and Culture (3)
Elements of understanding, speaking, reading, and writing Cherokee, concepts of grammar and culture  (P3a)

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 101

231 Intermediate Cherokee I (3)
Review and continuation of oral and written grammar, selected readings, and 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 and readings in specialized areas  PREQ 231

351 Phonetics and General Linguistics (3)
Introduction to linguistics, the Cherokee sound system from a phonetic and allophonic view, grammatical categories, morphology, syntax  PREQ Permission of instructor

Child Development & Family Relations (CDFR)

261 Family Dynamics (3)
Interdependence between cultural values and diverse family systems in the development and function of family units

361 Environments for Young Children (3)
The physical, emotional, and social environment suitable for young children, room arrangement, scheduling, space utilization, and teacher-child interaction
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>363</td>
<td>Child Development I (3)</td>
<td>Physical, emotional, social, and mental development from birth through middle childhood. 2 Lecture, 2 Lab</td>
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<tr>
<td>364</td>
<td>Survey of Human Development (3)</td>
<td>The life span, prenatal through death, the social, emotional, cognitive, moral, and physical characteristics of each stage</td>
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<td>367</td>
<td>Child Development II (3)</td>
<td>Social, emotional, physical, and intellectual development during the preadolescent and adolescent years. PREQ 363</td>
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<tr>
<td>389</td>
<td>Cooperative Education in Child Development (1 or 3, R15)</td>
<td>See Cooperative Education Program</td>
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<tr>
<td>463</td>
<td>Infancy (3)</td>
<td>Activities and materials that promote infant development during the first 24 months, dynamics of infant-teacher and infant-parent interaction emphasized</td>
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<td>464</td>
<td>Family and Community (3)</td>
<td>The integration of current theories and methods of family interaction and involvement in programs for young children and other community settings. PREQ 363</td>
</tr>
<tr>
<td>465</td>
<td>Day Care Management (3)</td>
<td>Organization and administration of programs in child development and day care centers</td>
</tr>
<tr>
<td>466</td>
<td>Methods I (3)</td>
<td>Methods, materials, and experience in the Child Development Center. PREQ 361, 363, 463 2 Lecture, 3 Lab</td>
</tr>
<tr>
<td>467</td>
<td>Perspectives in Parenting (3)</td>
<td>Effective child-rearing skills, review of current theories, research, and model parenting programs</td>
</tr>
<tr>
<td>468</td>
<td>Families: Organization and Function (3)</td>
<td>Family organization and function, the family life cycle and areas of adjustment. PREQ 261 or permission of instructor</td>
</tr>
<tr>
<td>469</td>
<td>Family Gerontology (3)</td>
<td>Study of older family members, their relationships, development, life adjustments, and sources of assistance. PREQ 364 or permission of instructor</td>
</tr>
<tr>
<td>470</td>
<td>Methods II (3)</td>
<td>Curriculum materials in programs for younger children, techniques for implementation and daily planning. PREQ 466 2 Lecture, 3 Lab</td>
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<tr>
<td>480</td>
<td>Independent Study (1-3, R6)</td>
<td>PREQ 466 Permission of instructor</td>
</tr>
<tr>
<td>483</td>
<td>Internship (3, 3, 3)</td>
<td>PREQ Permission of instructor</td>
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<tr>
<td>484</td>
<td>Integration of theory and practice in a setting appropriate to the student's career field</td>
<td>S/U grading 9 hours per week per course. PREQ Permission of instructor</td>
</tr>
<tr>
<td>493</td>
<td>Special Topics (1-3, R6)</td>
<td>Current topics in child and family development</td>
</tr>
<tr>
<td>497</td>
<td>Child and Family Seminar (3)</td>
<td>Considerations of current research, professional ethics, personal and career development, child family advocacy, and the integration of knowledge with related areas. PREQ 466, 468</td>
</tr>
</tbody>
</table>

Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>565</td>
<td>Day Care Management (3)</td>
<td>660 Theories of Child Development (3)</td>
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<td>567</td>
<td>Parent Education (3)</td>
<td>661 Contemporary Family Systems (3)</td>
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<tr>
<td>568</td>
<td>Families Organization and Function (3)</td>
<td>693 Topics in Child and Family Studies (1-3 R6)</td>
</tr>
<tr>
<td>569</td>
<td>Family Gerontology (3)</td>
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</tr>
</tbody>
</table>
Chinese (CHIN)

131 Beginning Chinese I, II (3, 3)
132 Elements of understanding, speaking, reading, and writing Chinese, concepts of grammar, lab practice required 3-Lecture, 1 Lab

Clinical Laboratory Sciences (CLS)

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, and blood collection and specimen handling
PREQ Admission to CLS sequence 2 Lab

301 Analysis of Body Fluids (2)
The physiology and microscopic-chemical examination of urine, spinal fluid, semen, and gastric constituents PREQ Junior standing in CLS 1 Lecture, 3 Lab

302 Clinical Microbiology (4)
Mechanisms of disease production, isolation and identification of organisms using current lab procedures PREQ BIOL 413, 414 2 Lecture, 4 Lab

303 Basic Hematology (3)
Formation and function of cellular components of blood, hematological procedures, and coagulation PREQ Admission to CLS sequence 2 Lecture, 3 Lab

304 Immunology (3)
Host-parasite relationships, formation and function of antibodies, the immune responses in disease processes 2 Lecture, 3 Lab

305 Clinical Parasitology (2)
Medically important protozoans, cestodes, trematodes, and nematodes encountered in the laboratory PREQ Junior standing in CLS 1 Lecture, 3 Lab

306 Immunohematology (4)
The study of blood component therapy PREQ 303, 304, CLS major 2 Lecture, 4 Lab

307 Medical Mycology (2)
Superficial and systemic mycological diseases and methods of isolation and identification in CLS 1 Lecture, 3 Lab

308 Advanced Hematology (3)
Hematological states involving classification of anemias, leukemias, enzyme deficiencies, platelet anomalies, and coagulation disorders PREQ 303 2 Lecture, 3 Lab

309 Clinical Biochemistry (3)
Clinical parameters measuring the biochemical makeup of body fluids and results of lab tests related to disease states PREQ CHEM 361 2 Lecture, 3 Lab

389 Cooperative Education in Medical Technology (1 or 3, R12)
PREQ HSCC 389 See Cooperative Education Program

406 Laboratory Management (2)
Organization and administration of the clinical laboratory PREQ CLS major 1 Lecture, 2 Lab

480 Independent Study (1-2)
PREQ Permission of instructor

485 Clinical Practicum in Urinalysis (2)
PREQ 301 6 Clinic
486 Clinical Practicum in Hematology (3-5)  
PREQ 308 9-15 Clinic

487 Clinical Practicum in Blood Banking and Serology (3-5)  
PREQ 306 9-15 Clinic

488 Clinical Practicum in Microbiology (3-5)  
PREQ 302, 305, 307 9-15 Clinic

489 Clinical Practicum in Clinical Chemistry (3-5)  
PREQ 309 9-15 Clinic

Clothing, Textiles, and Merchandising (CTM)

140 Fashion Analysis (3)  
The aesthetic, functional, and economic aspects of fashion apparel creation and selection

141 Clothing Selection and Construction (3)  
Principles and techniques, fitting, altering, and constructing commercial patterns 2 Lecture, 3 Lab

242 Textiles (3)  
Construction, properties, recommended uses and care of fibers, yarns, and fabrics, applications to consumer purchasing and use of clothing and household textiles

243 Apparel Quality Analysis (3)  
Analysis of apparel products with focus on quality, performance, and cost decisions relative to product development and production, specification for materials, components, assembly, and stitchology

245 Dynamics of the Fashion Industry (3)  
Comprehensive survey of the scope and operation of the fashion industry

246 Fashion Buying and Merchandising (3)  
Fundamentals for the successful merchandising of fashion goods PREQ 245 or permission of instructor

340 Fashion in Retrospect (3)  
Aesthetic, social, political, and economic influences on the development of apparel, application of design principles to modern fashion PREQ 140 or permission of instructor

342 Apparel Production Processes (3)  
Concepts and techniques of apparel production, including selection of fabric and other garment components, analysis of fit and construction processes used at various production levels PREQ 242, 243 or permission of instructor 2 Lecture, 3 Lab

343 Tailoring (3)  
Selection of patterns and fabrics, fitting commercial patterns and construction and pressing techniques PREQ 141 2 Lecture, 3 Lab

344 Fashion Design Fundamentals (3)  
Applications of design principles in apparel manufacturing using flat pattern techniques PREQ 140, 342 2 Lecture, 2 Lab

346 Merchandising Apparel for Profit (3)  
Principles and practices related to the planning and control of an apparel merchandising operation PREQ 246, MATH 101 or equivalent, ACCT 161 or 251

347 Fashion Promotion (3)  
Methods of promoting fashion merchandise and their interrelationship in the presentation of a fashion story PREQ 246 or permission of instructor
389 Cooperative Education (1 or 3, R15). See Cooperative Education Program

441 Textile and Apparel Economics (3)
Economic and social aspects of textile and apparel production, distribution, and use
PREQ 242, 243, 246, or permission of instructor, ECON 130

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

445 Fashion Product Analysis (3)
Value analysis of the composition of fashion and home-furnishing products
PREQ 242, 243, 347

446 Principles and Techniques of Fashion Retailing (3)
Case study approach to the operation and management of fashion business enterprises
PREQ 346, 347, MKT 301, MGT 300, or permission of instructor

480 Independent Study (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 9 hours per week per course
PREQ Permission of instructor, junior standing, 2.00 GPA and written application

493 Special topics (1-3, R6)
PREQ Permission of instructor

Graduate Courses
545 Apparel and Home Furnishings Product Analysis (3)
546 Principles and Techniques of Fashion Retailing (3)

Communication - Core (CMCR)

140 Introduction to Mass Communications (3)
Survey of the history, function, and economics of the communication industry

150 Interpersonal Communication (3)
Basic theory and skills in interpersonal communication including gender, nonverbal, listening, and interviewing skills

250 Public Communication (3)
Basic principles of skills in public and group communication
PREQ ENGL 102

301 Writing for Mass Communications (3)
Elements of news, news values, basic interviewing techniques, writing principles and fundamentals, styles used in journalism, broadcasting, advertising, and public relations
PREQ ENGL 102, CMCR 140, CIS 293 Beg Micro Applications

350 Communication Theory and Research (3)
Survey of the theory, research, and legal aspects of the communications industry
PREQ 140 and 3-credit statistics course

389 Cooperative Education in Communications (1 or 3, R9)
See Cooperative Education Program
PREQ Completed 60 hours and permission of department head

401 Editing for Mass Communications (3)
Elements of critical thinking and analysis fundamental to the editorial process in mass communication
PREQ 301 and 350
465 Communications Ethics and Responsibilities (3)
The legal and moral responsibilities of communicators in the communication industry
PREQ 90 or more hours

483 Internship in Communications (3, R9)
Work experience in the communication industry, S/U grading
PREQ Completed 60 hours and permission of department head 9 hours per week, per 3-hour course

494 Communication Projects (1-3, R6)
Practical experience, performance, research in debate, forensics, film, electronic and print media
PREQ Permission of instructor

496 Seminar in Professional Development (1)
The development and evaluation of professional credentials for entry into the communication industry

Communication - Electronic Media (CMEM)

351 Comparative Studies in Film/TV (3)
Evaluative study of the relationship between the film and television industries, historical perspectives, techniques and impact, emphasis on the “language” of video
PREQ CMCR 301 3 Lecture, 2 Lab

354 Radio Production I (3)
Practical course in production of radio commercials, public-service materials, and news actualities
PREQ CMCR 301 2 Lecture, 2 Lab

355 Television Production I (3)
Producing and directing various television programs and productions, emphasis on studio operations
PREQ CMCR 301 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 CMCR 301 and CMHC 311 1 Lecture, 4 Lab

450 Directing for the Camera (3)
The art of directing on-camera performances
PREQ 355 COREQ 452 1 Lecture, 4 Lab

451 Advanced Studies in Film and Television (3)
Advanced studies in technical analysis and sociological impact of film and television
PREQ 351 or permission of instructor 3 Lecture, 2 Lab

452 Writing for Broadcast (3, R9)
Writing commercials, public service announcements, station promotions, and short educational/entertainment features for radio and television
PREQ CMCR 301 COREQ 450, 454, or 455 3 Lecture, 2 Lab

454 Radio Production II (3)
Editing and related technical skills
PREQ 354 or permission of instructor COREQ 452 1 Lecture, 4 Lab

455 Television Production II (3)
Continuation of 355 and emphasis on field production, editing, and related technical/creative skills
PREQ 355 COREQ 452 1 Lecture, 4 Lab

456 Broadcast Operations (3)
Principles of management in radio, television, and cable at the local and network levels
PREQ 354 or 355
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 354 or 355

458 Broadcast Sales and Promotion (3)
Introduction to the skills involved in selling broadcast time and broadcast promotions  PREQ 354 or 355

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 CMCR 301

493 Selected Topics in Electronic Media (3, R9)
Study in a special area of interest in electronic media

Communication - Human Communication (CMHC)

110 Persuasive Thinking, Reasoning, and Expression (3)
Development of thinking, reasoning, and oral skills through various rhetorical problems and simulations, emphasis on the student’s analysis, synthesis, integration, communication, and valuing behaviors  (F3)

201 Introduction to Speech Communication (3)
Basic principles of communication skills in interpersonal, small group, and public communication  (F3)  PREQ ENGL 101

311 Voice and Articulation (3)
Effective speech production, individual practice, standards of good diction, and 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, and parliamentary practice

313 Argumentation and Debate (3)
Analysis, evidence, refutation, reasoning, techniques of delivery, participation in debate required

314 Professional Speaking (3)
Advanced principles of public communication skills as related to professional speaking  PREQ CMCR 250

315 Organizational Communication (3)
Channels of oral communication in complex organizations, and organizational influences on communication

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

414 Gender Communication (3)
An examination of the communication behavior of women and men in different contexts, existing communication differences dealing with self-perception, information processing, verbal and nonverbal coding, images of women and men
415 Intercultural Communication (3)
Nature of intercultural communication, variables of both culture and communication, and the impact on intercultural communication in our ever-changing world

493 Selected Topics in Human Communication (3, R9)
Study in a special area of interest in human communication

Graduate Course
593 Selected Topics (3)

Communication - Print Media (CMPM)

302 Reporting of Public Affairs (3, R6)
Advanced reporting course on selected public affairs topics  PREQ CMCR 301

303 Persuasive Writing (3)
Writing persuasive messages for selected audiences in public relations, advertising and promotions, and mass media  PREQ CMCR 301

304 Magazine and Feature Writing (3)
Writing feature material for newspapers and magazines  PREQ CMCR 301

305 Sports Writing (3)
Fundamentals of sports reporting for print media  PREQ CMCR 301

402 Print Media Production (3)
Layout, design, and production for print media  PREQ CMCR 350

403 Association Communications (3)
The development and operation of effective communications programs for nonprofit organizations  PREQ CMCR 401

404 Desktop Publishing (3)
The use of personal computers and peripherals to produce publications and promotional materials  PREQ CMCR 401

493 Selected Topics in Print Media (3, R9)
Study in a special area of interest in print media

Graduate courses
593 Selected Topics in Print Media (3)

Communication - Public Relations (CMPR)

360 Introduction to Public Relations (3)
The study of the management function of controlling an organization's communication with its publics  PREQ CIS 293 Beg Micro Applications

460 Public Relations Campaigns (3)
Identification and analysis of organizational publics, the development of specific communication strategies to influence those publics, and the implementation and evaluation of those communication strategies  PREQ 360

493 Selected Topics in Public Relations (3, R9)
Study in a special area of interest in public relations  PREQ 360
Graduate courses
593 Selected Topics in Public Relations (3)

Communication - Theatre Arts (CMTA)

102 Theatre Production: Stagecraft (1)
   Hands-on participation in the construction/painting of stage scenery .4 Lab (F5)

103 Theatre Production: Costume (1)
   Hands-on participation in the construction of stage costumes and accessories .4 Lab (F5)

104 The Theatre Experience (3)
   Analysis of what the theatre is about, what goes on in the theatre, and what it means to
   be a viewer .P3b

130 Makeup (1)
   Application of stage makeup

131 Introduction to Theatre (3)
   Survey of theatre profession for beginning majors and minors .2 Lecture, 2 Lab

140 Acting I (3)
   Introduction to the basic principles of acting

231 Stagecrafts I (3)
   Introduction to theatre crafts and technology .PREQ 131 .2 Lecture, 2 Lab

270 Theatre Arts Workshops I (1-3, R6)
   Practical experience performance crews in theatre productions .PREQ Permission of
   instructor 3 lab per credit hour

300 Dramatic Literature and Criticism I (3)
   Dramatic structure, interpretation, and evaluation of masterpieces, Greek period to
   1700 .PREQ 131

301 Dramatic Literature and Criticism II (3)
   Dramatic structure, interpretation, and evaluation of masterpieces, 1700 to present
   .PREQ 300 or permission of instructor

330 Makeup II (1)
   Three-dimensional makeup and mask building .Project oriented, emphasis on portfolio
   preparation .PREQ 130 3 Lab

331 Stagecrafts II (3)
   Continuation of CMTA 231 with emphasis on application to production .PREQ 131, 231

332 Introduction to Theatrical Design (3)
   Principles and practices of design as applied to theatre .Project oriented .PREQ 331

333 Scenic Technology (3)
   Advanced theory and practice in technology associated with scenic construction,
   emphasis on preparation for supervision of a basic scene shop .PREQ 332

335 Lighting Technology (3)
   Advanced theory and practices in technology associated with theatre lighting, emphasis
   on preparation for supervision of lighting crew .PREQ 332
337 Costume Technology (3)  
Advanced theory and practice associated with costume construction, emphasis on preparation for supervision of a basic costume shop  PREQ 332

340 Acting II (3)  
Introduction to character analysis and styles  PREQ 131, 140

341 Acting III (3)  
Advanced scene work for theatre majors  PREQ 340

345 Acting for the Camera I (3)  
The art of acting as it relates to the television/film environment  PREQ 140 or 340 2 Lecture, 2 Lab

346 Acting for the Camera II (3)  
PREQ 345

350 Directing I (3)  
Survey and practical application of the basic theories of play directing  PREQ 131, 140, 231

351 Directing II (3)  
Directing colloquium production problems and solutions  PREQ 350

370 Theatre Arts Workshops II (1-3, R6)  
Practical experience, performance, leadership portions of theatre productions  PREQ Permission of instructor 3'lab per credit hour

389 Cooperative Education in Theatre Arts (1-3, R6)  
See Cooperative Education Program  PREQ Completed 60 hours and permission of department head

400 History of the Theatre I (3)  
The theatre in performance  Origins and development of theatrical forms and style through the study of acting, physical facilities, design, and the cultural milieu of the audience, Greek period to 1700  PREQ 12 hours in major

401 History of the Theatre II (3)  
The theatre in performance  Origins and development of theatrical forms and style through the study of acting, physical facilities, design, and the cultural milieu of the audience, 1700 to present  PREQ 400

433 Scene Design (3)  
Theory and practice in the design of stage scenery  Project oriented, emphasis on portfolio preparation  PREQ 333

435 Lighting Design (3)  
Theory and practice in the design of stage lighting  Project oriented, emphasis on portfolio preparation  PREQ 335

437 Costume Design (3)  
Theory and practice in the design of theatrical costumes  Project oriented, emphasis on portfolio preparation  PREQ 337 or permission of instructor

441 Acting IV (3)  
In-depth character analysis and application  PREQ 341
483 Internship in Theatre Arts (3, R9).
Work experience in the theatre industry S/U grading  PREQ Completed 60 hours and/or permission of department head 9 hours per week per 3 hour course.

486 Theatre Production (3, R12)
Intensive training in performance, design, or theatre technology  PREQ Permission of department head

493 Selected Topics in Theatre Studies (3, R9)
Study in a special area of interest in theatre

496 Seminar in Professional Development (1)
Seminar in career preparation for the emerging professional  PREQ Senior status

499 BFA Thesis (2)

Graduate Courses
586 Theatre Production (3)
593 Selected Topics in Theatre Arts (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  PREQ 270 or equivalent

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 301, 370, 471, or equivalent

370 Phonetics (3)
Study of sound feature production, phonetic transcription  PREQ 270 or equivalent

371 Articulation/Phonological Disorders (3)
The etiology, diagnosis, and treatment of articulation and phonological disorders  PREQ 301, 370, 471, or equivalent

372 Speech Science (3)
Principles and concepts in speech production and perception, techniques for acoustic analysis  PREQ 370 or equivalent

450 Introduction to Audiology (3)
Fundamentals of audiology, the physics of sound and its measurement, aural anatomy, physiology, etiology, and pathology  PREQ 372 or equivalent

451 Sign Language I (3)
Beginning sign language skills, receptive and expressive, cultural issues

452 Sign Language II (3)
Advanced sign language skills, receptive and expressive, cultural issues  PREQ 451 or equivalent
471 Anatomy and Physiology of the Speech Mechanism (3)
Study of the anatomic structures involved in speech and their function in the speech
process  PREQ 270, 370 or equivalent

474 Voice Disorders (3)
The etiology, evaluation, and treatment of voice disorders  PREQ 372, 471 or equiva-
 lent

476 Language Disorders in Children (3)
Analysis of childhood language disorders, evaluation and implementation of treatment
approaches  PREQ 301, 370, 471, or equivalent

478 Fluency Disorders (3)
Theory, diagnosis, and treatment of fluency disorders in children and adults  PREQ
301, 370, 372, 471 or equivalent

485 Clinical Practicum in Communication Disorders (1, R2)
Supervised evaluation and intervention with persons exhibiting communication disor-
ders  PREQ 371, 476, or equivalent, and permission of clinical director, 25 hours of
supervised observations of clinical experience

494 Topics in Communication Disorders (1-3, R6)
PREQ Permission of instructor

495 Seminar in School Practice (3)
Theory, policy, and procedures related to school-based practice  PREQ 485 or
permission of instructor

Graduate Courses

551 Sign Language I (3)
552 Sign Language II (3)
572 Aural Rehabilitation (3)
574 Voice Disorders (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)
650 Clinical 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)
677 Dysphagia (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, R15)
684 Seminar in Articulation and Phonology (3)
690 Seminar in Language (3)
691 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-
puter applications in spreadsheets, word processors, and database systems

256 Business Computer Programming (3)
Application of programming principles in business, flowcharting, coding, documenta-
tion, and testing, computer architecture and data representation  PREQ 251

258 Applications Development I (3)
An introduction to developing common business applications using a traditional
business programming language  Students will develop programs using batch process-
ing techniques  PREQ 256

293 Topics in Computer Information Systems (1-3, R3)
301 Microcomputer Applications (3)
Maximum "hands-on" experience with microcomputers and software packages, including word processing, spreadsheets, database managers, and graphics systems

358 Applications Development II (3)
The study of state of the art tools and techniques for developing complex business applications, data organization, on-line processing, software engineering, and software maintenance
PREQ 258

365 Computer Architecture, Communications, and Operating Systems (3)
Architecture of modern computer systems including peripherals, data communications and networking with fault-tolerant computing, language transition, operating systems software and utilities
PREQ 258

389 Cooperative Education in Information Systems (1 or 3, R15) See Cooperative Education Program

451 Operations Analysis and Modeling (3)
Simulation as a tool in commercial systems, random variate generation, normal and gamma distribution, time-domain deterministic and stochastic models, special-purpose languages
PREQ 251, ECON 235

453 Database Management Systems (3)
Study of database processing, design, implementation, and administration for business
Students design and implement a database using current technology
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, responsibility and accountability of information resource managers, security, legal, and ethical issues, procurement and supervision of resources, resource assessment
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

493 Topics in Information Systems (1-3, R6)
PREQ Permission of department head

Graduate Courses
651 Decision Support Systems (3)
661 Systems Design (3)
662 Database Management (3)
682 Research Project in Computer Information Systems (3, R6)
693 Topics in Information Systems (1-3, R6)

Computer Science (CS)

101 Computer Concepts (1)
Computer applications including hands-on experience with word processing, spreadsheets, database management, and graphics (F4)
130 Introduction to Computing (3)
Computer Science overview use of applications; programming, hypertext development, topics from program translation, architecture; computer networks, artificial intelligence, and social implications

141 BASIC Programming (2)
Introduction to BASIC programming a structured approach to include graphics, arrays, subroutines, and files

150 Problem Solving and Programming (3)
Problem-solving and algorithm development using an object-based programming language classes, selection, iteration, arrays, and generic classes COREQ MATH 130 or equivalent

151 Data Structures (3)
Object-oriented data structure and algorithm development recursion, pointers and dynamic allocation, inheritance, lists, stacks, queues, trees, priority queues, hash tables, searching, and sorting PREQ 150

250 Introduction to Computer Systems (3)
The computer architecture and system call interfaces, assembly language programming, implementation of system calls, linking, exceptions, interrupt handling, and input/output PREQ 150

301 High-Level Languages (3, R9)
ADA, C, PROLOG, LISP, or other 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)
Binary systems, Boolean algebra, combinational logic, synchronous sequential logic, asynchronous sequential logic PREQ MATH 146 and some programming experience

304 Digital Logic Laboratory (1)
Laboratory experience to enhance topics from CS 303 PREQ 303, MATH 146, some programming experience

310 (MATH 310) Discrete Structures (3)
Graph theory planarity, eulerian, hamiltonian colorings, and trees Enumeration permutations, combinations, binomial distribution, generating functions, recurrence relations, and inclusion-exclusion COREQ 351

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

340 Introduction to Scientific Computing (3)
Floating point representations, round-off errors, nonlinear equations, numerical integration, data analysis, and numerical differentiation Survey software packages and other technology PREQ MATH 140 or 153 and some programming experience

350 Introduction to Computer Organization (3)
Introduction to computer arithmetic, processor organization and design, micro-programming and control unit design, memory organization, I/O organization PREQ 250 and 303

351 Introduction to Algorithms (3)
Algorithm analysis, sorting, graph algorithms, combinational optimization algorithms, NP-Complete problems and backtracking, design techniques (induction, greedy, divide-and-conquer, dynamic programming, and reductions ) PREQ 151 COREQ 310
352 **Organization of Programming Languages (3)**
Language processors, data and data control, operations, sequence control, storage management, operating environment, syntax, and translation  
PREQ 250

360 **Theory of Computation (3)**
An introduction to finite automata and regular expressions, context-free languages, Turing machines, Church's thesis and recursive functions, uncomputability, and computational complexity  
PREQ 310 or permission of instructor

361 **Computer Graphics (3)**
Storage tube and raster scan graphics terminal technologies, language and data structures for graphics, 2-D and 3-D graphics and transformations, plane and space curves, surface generation  
PREQ 150 or 340

370 **Operating Systems (3)**
Concurrency (synchronization primitives and deadlock) and implementation of the operating system kernel (process management, memory management, and file systems), introduction to computer networks  
PREQ 250

389 **Cooperative Education in Computing (1 or 3, R15)** See Cooperative Education Program

393 **Topics in Computer Science (1-3, R6)**  
PREQ Permission of department head

441 *(MATH 441)* **Introduction to Numerical Analysis (3)**
Finite differences, interpolation, numerical integration and solutions to ordinary differential equations, linear systems, eigenvalues, eigenvectors, errors  
PREQ MATH 254 or MATH 262, MATH 255, and CS 150

443 **Automata and Formal Languages (3)**
Phrase structure grammar, context-free languages, finite state machines, pushdown acceptors, Turing machine, recursiveness, and computability  
PREQ MATH 310

451 **Algorithms (3)**
Selected topics from the theory of algorithms  
Topics may include algorithms for parallel computers, polynomials and FFT, number-theoretic algorithms, and computational geometry  
PREQ MATH 351

452 **Advanced Computer Architecture (3)**
Advanced topics in computer architecture including pipelining, multiple and parallel processing systems, issues in performance enhancement, data flow computers, and VLSI computations  
PREQ 350

453 **Database Systems (3)**
Relational query languages (SQL), database design, normal forms, storage structures, access methods, query processing, crash recovery, transactions, distributed databases, object-oriented and multimedia databases  
PREQ 370

455 **Computer System Performance Analysis (3)**
Performance evaluation of computer systems and computer networks, measurement and benchmarks, simulation, and analytical models (stochastic processes and queueing theory)  
PREQ 370 and MATH 270

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)**
Advanced implementation issues in the design of the software of computer systems with a focus on parallel and distributed systems  
PREQ 370
463 Software Engineering (3)
Software development methodologies in very large programming tasks, object-oriented design, information hiding, concurrent processing PREQ 250

464 Microcomputer Development (3)
Software and hardware development and interfacing for dedicated microcomputer applications PREQ 350 or PHYS 302 or IET 371 2 Lecture, 2 Lab

465 Computer Networks (3)
Protocol layers, ATM, media access, routing, flow control, TCP/IP, socket programming, client-server, remote procedure call, global states, fault-tolerant group communication, consensus, name services, and real-time communication PREQ 351 and 370

479 Capstone (2)
An independent study in which the student develops a project or thesis which demonstrates an understanding of the computer science principles learned while completing the requirements for the major PREQ Senior standing

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>552</td>
<td>Advanced Computer Architecture (3)</td>
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<tr>
<td>555</td>
<td>Computer System Performance Analysis (3)</td>
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<td>560</td>
<td>Compiler Construction II (3)</td>
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<td>564</td>
<td>Microcomputer Development (3)</td>
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<td>580</td>
<td>Artificial Intelligence (3)</td>
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<tr>
<td>593</td>
<td>Topics in Computer Science (1-6, R6)</td>
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<tr>
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<td>Computer Literacy (3)</td>
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<td>601</td>
<td>Logo (3)</td>
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<td>602</td>
<td>Structured Basic (3)</td>
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<td>606</td>
<td>Applications to the K-8 Curriculum (3)</td>
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<td>Compiler Construction II (3)</td>
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<td>606</td>
<td>Applications to the K-8 Curriculum (3)</td>
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</table>

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

430 Individual and Group Counseling (3)
Principles and techniques of individual and group counseling, communication techniques, and 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>600</td>
<td>Individual and Group Helping Skills (3)</td>
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<tr>
<td>601</td>
<td>Professional Orientation (1)</td>
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<td>605</td>
<td>The Helping Relationship (3)</td>
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<td>610</td>
<td>Family Counseling (3)</td>
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<td>615</td>
<td>Multicultural Counseling (3)</td>
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<td>617</td>
<td>Substance Abuse Counseling (3)</td>
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<td>620</td>
<td>Counseling Children (3)</td>
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<td>623</td>
<td>Introduction to Community Counseling (2)</td>
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<td>625</td>
<td>Counseling Developmental Perspectives (3)</td>
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<td>650</td>
<td>Career Development (3)</td>
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<td>Career Counseling (3)</td>
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<td>School Counseling Program Development (2)</td>
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<td>Research in Counseling (3)</td>
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<td>Independent Study in Counseling (3)</td>
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<td>686</td>
<td>Practicum in Counseling (3)</td>
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<td>Internship in Counseling (3, R6)</td>
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<td>Seminar in Counseling (3)</td>
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<td>Thesis (3, R6)</td>
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<tr>
<td>630</td>
<td>Theories of Counseling (2)</td>
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<td>631</td>
<td>Techniques of Individual Counseling (1)</td>
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<td>632</td>
<td>Crisis Intervention Counseling (3)</td>
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<td>634</td>
<td>Group Methods in Counseling (3)</td>
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<td>640</td>
<td>Measurement and Appraisal in Counseling (3)</td>
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<tr>
<td>645</td>
<td>Consultation (3)</td>
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<td>730</td>
<td>Advanced Theory and Techniques in Counseling (3)</td>
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<td>784</td>
<td>Internship in Counseling (3)</td>
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<td>786</td>
<td>Advanced Practicum in Counseling (3)</td>
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</table>

**Criminal Justice (CJ)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Description</th>
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<tbody>
<tr>
<td>250</td>
<td>The Criminal Justice System (3)</td>
<td>Evaluation of formal institutions dealing with crime in Western culture, overview of major components of the criminal justice system</td>
</tr>
<tr>
<td>311</td>
<td>The Juvenile Justice Process (3)</td>
<td>The phenomenon of juvenile delinquency, evaluation of a unique justice system for children, related concerns, problems, and expectations PREQ 250</td>
</tr>
<tr>
<td>320</td>
<td>The Law Enforcement Process (3)</td>
<td>Philosophical, historical, and operational aspects of law enforcement agencies and processes within a framework of social control in a democratic society PREQ 250</td>
</tr>
<tr>
<td>330</td>
<td>Courts and Criminal Procedure (3)</td>
<td>State and federal court systems, criminal judicial process, and rights of the individual PREQ 250</td>
</tr>
<tr>
<td>340</td>
<td>The Corrections Process (3)</td>
<td>Examination of modern corrections through review of penal history, theory, and practice PREQ 250</td>
</tr>
<tr>
<td>350</td>
<td>Criminal Justice Theory (3)</td>
<td>Theories of law, justice, punishment, and crime causation PREQ 250</td>
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<tr>
<td>352</td>
<td>Planning and Methodology (3)</td>
<td>Planning as a process of criminal justice decision making using contemporary methods and techniques</td>
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<tr>
<td>370</td>
<td>Ethics in Criminal Justice (3)</td>
<td>Examination of ethical issues in the criminal justice field PREQ 250</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education (1 or 3, R15)</td>
<td>See Cooperative Education Program Credit will not be given for both 483 and 389</td>
</tr>
<tr>
<td>404</td>
<td>Substantive Criminal Law (3)</td>
<td>The nature and definition of substantive criminal offenses, examination of federal and state law, principles of criminal liability, defenses, and complicity PREQ 250</td>
</tr>
<tr>
<td>406</td>
<td>Criminal Justice Administration (3)</td>
<td>Procedural aspects of statutory and case law affecting the administration of law enforcement and the control of police conduct</td>
</tr>
<tr>
<td>410</td>
<td>Victimology (3)</td>
<td>A study of the experiences of crime victims with the criminal justice system as well as victim characteristics, vulnerability, and culpability PREQ 250</td>
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<tr>
<td>420</td>
<td>Criminal Investigations (3)</td>
<td>An analysis of methods used in conducting criminal investigations</td>
</tr>
<tr>
<td>423</td>
<td>Criminalistics (3)</td>
<td>A survey of methods and techniques used in the scientific investigation of criminal offenses</td>
</tr>
<tr>
<td>424</td>
<td>Community Corrections (3)</td>
<td>Development, organization, operation, and results of probation and parole systems as substitutes for incarceration</td>
</tr>
</tbody>
</table>
425 Police Tactical Theory (3)
Theories related to the development of police policy concerning appropriate responses to dangerous and potentially lethal confrontations

430 Criminal Evidence (3)
Examination of the rules of evidence and courtroom procedures in criminal trials

440 Organized Crime (3)
Examination of traditional and emerging organized crime groups and their impact on society and the criminal justice field

454 Comparative Criminal Justice Systems (3)
Law enforcement and correctional and court subsystems in the Western world today

460 Drug Abuse (3)
An examination of drugs of abuse and the evolution of drug laws, law enforcement, and correctional responses for drug offenders

480 Independent Study in Criminal Justice (1-3, R6)

482 Senior Directed Research (3)
Directed research/independent study in criminal justice PREQ 352

483 Internship in Criminal Justice (3-12, R12)
Supervised applications of academic study in a practical criminal justice setting Credit not given for both 389 and 483 PREQ Junior standing, permission of instructor, 250, 320, 330, 340, and 2.0 GPA 135 hours per 3 credits

493 Topics in Criminal Justice (1-3, R12)
PREQ Approval of department head

495 Seminar on Criminal Justice Problems (1-3, R6)
PREQ Approval of department head

Graduate Courses
524 Probation and Parole (3)
593 Topics in Criminal Justice (1-3, R9) 640 Correctional Administration (3)
620 Law Enforcement Administration (3)
680 Independent Study in Criminal Justice (3, R6)

Curriculum and Instruction (EDCI)

200 Seminar in Leadership Development (1, R4)
Leadership development through seminars with university and public-school professionals, field trips, and service projects PREQ Admission to the North Carolina Teaching Fellows program

230 Peer Tutor Training (1, R2)
Principles and techniques of tutoring PREQ Permission of instructor 1 Lecture, 2 Lab

231 Historical, Social, and Philosophical Foundations of Education (3)
An introductory study of the broad historical, sociological, and philosophical aspects of education Field experience required

300 Seminar in Teaching and Research (1, R3)
Leadership development through seminars, projects with mentors, and independent study PREQ Admission to the North Carolina Teaching Fellows program and to the professional education sequence

480 Reading and Research in Education (3)
PREQ Permission of department head

Graduate Courses
503 Social Studies in the Secondary School (3)
506 Contemporary Philosophies of Education (3)
601 Educational Sociology (3)
615 Philosophy, History, and Sociology of Education (3)
693 Topics in Education (1, R3)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>602</td>
<td>Methods of Research (3)</td>
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<td>603</td>
<td>Comparative Education (3)</td>
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<td>Curriculum Development (3)</td>
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<td>605</td>
<td>Foundations of Modern Education (3)</td>
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<td>Educational Tests and Measurements (3)</td>
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<td>611</td>
<td>Qualitative Research (3)</td>
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<td>612</td>
<td>Principles and Application of Educational</td>
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<td>Research Methods and Analysis (3)</td>
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<td>Thesis (4)</td>
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<td>700</td>
<td>Philosophy of Education (3)</td>
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<td>702</td>
<td>Research Seminar in Curriculum (3)</td>
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<td>703</td>
<td>Advanced Research Methods (3)</td>
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<td>800</td>
<td>Issues in Rural Education (3)</td>
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<tr>
<td>801</td>
<td>Mesa Theory Research Review and Applications (3)</td>
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<td>802</td>
<td>Program Planning and Evaluation (3)</td>
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<td>803</td>
<td>Issues in Rural Education (3)</td>
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<tr>
<td>805</td>
<td>Advanced Research Methods (3)</td>
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<tr>
<td>895</td>
<td>Doctoral Research Seminar (3)</td>
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**Earth Sciences (ESI)**

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<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>471</td>
<td>Field Studies of Selected Regions (3, R6)</td>
<td></td>
<td>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</td>
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**Economics (ECON)**

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>103</td>
<td>(311) Economics of Comparative Cultures (3)</td>
<td></td>
<td>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)</td>
</tr>
<tr>
<td>104</td>
<td>(312) Contemporary Economic Institutions (3)</td>
<td></td>
<td>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 (P1b)</td>
</tr>
<tr>
<td>108</td>
<td>(313) The Perfect Society (3)</td>
<td></td>
<td>The application of skills in thinking, reasoning, and expressing through the exercise of developing a &quot;Perfect Society&quot; (F3)</td>
</tr>
<tr>
<td>130</td>
<td>Survey of Economics (3)</td>
<td></td>
<td>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</td>
</tr>
<tr>
<td>231</td>
<td>Introductory Microeconomics and Social Issues (3)</td>
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<td>Microeconomic principles, the market system, supply and demand, pricing, market structures, resources markets</td>
</tr>
<tr>
<td>232</td>
<td>Introductory Macroeconomics and Social Issues (3)</td>
<td></td>
<td>Macroeconomic principles, alternative theories of economic instability, national income, fiscal policy, monetary policy, and international trade</td>
</tr>
<tr>
<td>235</td>
<td>Statistics (3)</td>
<td></td>
<td>Measures of central tendency, probability analysis, inferences to populations from large and small samples using univariate, bivariate, and multivariate distributions PREQ MATH 130</td>
</tr>
<tr>
<td>302</td>
<td>Economics of the Firm (3)</td>
<td></td>
<td>The price mechanism and allocation of resources under competition, monopoly, and imperfect competition, applications to decision making PREQ 231, 232, MATH 130</td>
</tr>
<tr>
<td>303</td>
<td>Money, Financial markets, and Economics Policy (3)</td>
<td></td>
<td>Monetary systems and standards, factors determining money supply, the role of commercial and central banks PREQ 231, 232</td>
</tr>
<tr>
<td>304</td>
<td>Business Conditions Analysis (3)</td>
<td></td>
<td>Evaluation of business indicators, techniques for analyzing current business conditions and forecasting changes in levels of national economic activity PREQ 231, 232, 235</td>
</tr>
</tbody>
</table>
305 Public Finance (3)
Governmental expenditures, sources of revenue, public credit, principles and methods of taxation and financial administration, fiscal policy

306 Economics of Transportation (3)
Characteristics and problems of intercity transportation modes and agencies PREQ Any 3 hours in economics

307 Regional Economic Analysis (3)
Regional structure and growth, location theory, interregional income theory, factory mobility, public policy for regional development PREQ Any 3 hours in economics

308 Government and Business (3)
Governmental regulation of business, evolution of control, methods, and agencies PREQ Any 3 hours in economics

309 International Economics (3)
Trade patterns among nations, effects of trade on participant countries, tariffs and quotas, balance of payments, exchange rates, international monetary system PREQ 231, 232

310 Natural Resource Economics (3)
Economic policy regarding renewable and nonrenewable resources, environmental and energy economics PREQ 130 or equivalent

389 Cooperative Education in Economics (1 or 3, R15). See Cooperative Education Program

401 Comparative Economic Systems (3)
Economics under capitalism, socialism, communism, and fascism, organization of production, decision making, problems of underdeveloped nations PREQ Any 3 hours in economics

403 Development of Economic Ideas (3)
Ideas of the great economists, great debates in economics PREQ Any 3 hours in economics

404 Introductory Mathematical Economics (3)
Functions, graphs, calculus, and systems of equations applied to economic analysis PREQ 231, 232, MATH 130

406 International Economic Development (3)
Institutional forces shaping economic development, developed and less-developed nations compared, population growth, capital formation, educational improvement PREQ 231, 232

480 Independent Research (3)
PREQ Permission of department head

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

Graduate Courses
607 Managerial Economics (3) 682 Research Project in Economics (3, R6)
608 Business and Managerial Forecasting (3) 693 Topics in Economics (3, R6)
609 International Economics (3)

Education and Psychology (EDPY)
493 Topics in Education and Psychology (1-3, R6)
### Graduate Courses

<table>
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<tr>
<th>Code</th>
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<tr>
<td>591</td>
<td>Topics in Education and Psychology (1, R3)</td>
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<td>Topics in Education and Psychology (2, R6)</td>
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<td>793</td>
<td>Topics in Education and Psychology (3, R12)</td>
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<td>600</td>
<td>Theory and Foundations of School Administration (3)</td>
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<td>610</td>
<td>The Principalship (3)</td>
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<td>Educational Organizations (3)</td>
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<td>Leadership Theory (3)</td>
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<td>620</td>
<td>School Law (3)</td>
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<td>630</td>
<td>School Finance and Business Management (3)</td>
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<td>School Plant Planning and Management (2)</td>
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<td>School Personnel Administration (3)</td>
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<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>Secondary Principal Internship (1)</td>
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<td>School Site Internship I (3)</td>
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<td>687</td>
<td>School Site Internship II (3)</td>
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<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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<tr>
<td>710</td>
<td>(EDHE 710) Administration of Two-Year Colleges (2)</td>
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<td>Secondary Principal Internship (1)</td>
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### Educational Administration (EDAD)

### Educational Leadership (EDL)

### Educational Supervision (EDSU)

### Electronics Engineering Technology (EET)

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<th>Title</th>
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<td>141</td>
<td>Electronic Drafting (1)</td>
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<td>Study of drafting and graphics relating to the field of electronics</td>
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<td>142</td>
<td>Electronic Fabrication (1)</td>
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<td></td>
<td>Study of methods used to assemble and construct electronic circuits</td>
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<td>2 Lab</td>
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<td></td>
<td>and equipment</td>
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<td>231</td>
<td>Circuit Analysis I (4)</td>
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<td></td>
<td>Fundamental electrical theory involving DC/AC circuits</td>
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<td>Topics include series, parallel, series-parallel networks,</td>
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<td></td>
<td>electromagnetic theory, transient circuit analysis,</td>
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<td>introduction to AC electricity</td>
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<td>PREQ MATH 145, 146</td>
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<td>3 Lecture, 2 Lab</td>
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<td>232</td>
<td>Circuit Analysis II (4)</td>
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<td>Fundamentals of DC/AC circuits</td>
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<td>Topics include AC series, parallel, series-parallel circuits,</td>
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<td></td>
<td>analysis techniques, network theorems, resonance, and transformers</td>
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<td>PREQ 231</td>
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<td>3 Lecture, 2 Lab</td>
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<td>241</td>
<td>Digital Integrated Circuits I (3)</td>
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<td></td>
<td>Study of combinational and sequential digital circuits using</td>
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<td>integrated circuits techniques</td>
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<td>COREQ 231</td>
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<td>DC/AC Electricity (3)</td>
<td>Direct current and alternating current electricity. Topics include Ohm's Law,</td>
<td>MATH 144 or 145 and PHYS 130</td>
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<td></td>
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<td>series, parallel and series-parallel circuits, transformers and measurement</td>
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<td>302</td>
<td>Industrial Instrumentation and Control (3)</td>
<td>Control system components and applications, control diagrams, solid-state</td>
<td>MATH 144 or 145 and PHYS 130</td>
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<td>components, industrial motors and controls, programmable controllers</td>
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<td>Solid State Devices (4)</td>
<td>Theory of discrete semiconductor devices and their applications</td>
<td>MATH 144, 142, 232</td>
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<td>312</td>
<td>Analog Integrated Circuits (4)</td>
<td>Study of analog circuits including amplifiers, regulators, interface circuits,</td>
<td>MATH 144, 142, 232</td>
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<td>and special applications</td>
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<td>331</td>
<td>Digital Integrated Circuits II (3)</td>
<td>Continuation of 241 including the study of digital system organization and</td>
<td>MATH 232</td>
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<td></td>
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<td>332</td>
<td>Microcontrollers (3)</td>
<td>Study of contemporary 8-bit microcontrollers</td>
<td>MATH 232</td>
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<td>Microcontroller architecture, programming, and interfacing</td>
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<td>341</td>
<td>Advanced Circuit Analysis (3)</td>
<td>Study of linear systems, introduction to digital signal processing</td>
<td>MATH 153</td>
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<td>352</td>
<td>Electrical Motors and Controls (3)</td>
<td>A study of AC and DC machines and the circuits that control them</td>
<td>MATH 232, IT 370 or equivalent or permission of</td>
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<td>Microprocessor Fundamentals (3)</td>
<td>Study of microprocessor fundamentals including integrated circuit architecture,</td>
<td>MATH 232</td>
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<td>instruction sets, and machine assembly language programming</td>
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<td>Microprocessor Applications (3)</td>
<td>Continuation of 431 including the study of interfacing of microprocessor and</td>
<td>MATH 232</td>
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<td>integrated circuits into complex systems</td>
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<td>Communication Systems (4)</td>
<td>A study of information transmission and modulation systems. Includes both</td>
<td>MATH 232</td>
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<td>analog and digital techniques used in radio and data communications</td>
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<td>452</td>
<td>Control Systems (4)</td>
<td>Fundamental principles of control theory and instrumentation with particular</td>
<td>MATH 232</td>
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<td>applications in manufacturing processes</td>
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<td>478</td>
<td>Senior Design Project Proposal (1)</td>
<td>Research methodology, literature review, and industrial writing styles,</td>
<td>MATH 232</td>
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<td>culminating in a written report proposal for a senior project</td>
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<td>479</td>
<td>Senior Design Project (3)</td>
<td>Organizing, planning, and implementing a project using acceptable industrial</td>
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<td>techniques culminating in a formal written report and oral presentation</td>
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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 the 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)  
391 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 476, 495

495 Seminar for Student Teachers (3)
Theory related to practice during student teaching  COREQ 476, 490

Graduate Courses

566 Computers in Education (3)
567 Adolescent Literature (3)
575 Discipline and Classroom Management (3)
580 Independent Study (3)
593 Topics in Elementary Education (3)
601 Elementary School Curriculum (3)
602 Individualizing Instruction (3)
603 Elementary Science Curriculum (3)
604 Elementary Social Studies Curriculum (3)
605 Elementary Math Curriculum (3)
656 Language Arts Curriculum (3)
657 Mathematical Problem Solving in Elementary/Middle School (3)
660 Diagnosis and Remediation in Elementary/Middle School Math (3)
614 Issues and Trends in Early Childhood Education (3)
618 Curriculum for Middle Grades Education (3)
620 Philosophy and Mission of Middle Grades Education (3)
622 Teaching-Learning Strategies for the Middle Grades (3)
623 Advanced Children’s Literature (3)
666 Projects in Educational Computing (3)
670 Practicum in Middle Grades Education (1-3, R3)
675 Workshop in Elementary Education (3)
680 Independent Study (1-3, R6)
695 Research Seminar in Elementary Education I (3)
696 Research Seminar in Elementary Education II (3)
697 Research Seminar in Middle Grades Education I (3)
698 Research Seminar in Middle Grades Education II (3)
701 Seminar in Elementary School Curriculum (3)
714 Programs in Elementary Education (3)
718 Philosophy and Curriculum for Middle Schools (3)
722 Research in Elementary Education (3)
725 Research Seminar in Elementary Education I (3)
726 Research Seminar in Elementary Education II (3)
727 Research Seminar in Middle Grades Education I (3)
728 Research Seminar in Middle Grades Education II (3)
730 Council for Exceptional Children (3)
731 Advanced Practicum in Middle Grades Education (3)
732 Advanced Practicum (3, R6)
735 Seminar in Advanced Practicum (3)
737 Basic Practicum (3)
740 Seminar in Middle Grades Education (3)
745 Seminar in Elementary School Curriculum (3)
750 Seminar in Middle Grades Education (3)
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975 Seminar in Middle Grades Education (3)
980 Seminar in Middle Grades Education (3)
985 Seminar in Middle Grades Education (3)
990 Seminar in Middle Grades Education (3)

Emergency Medical Care (EMC)

340 Fundamentals of Advanced Life Support (3)
The role and responsibilities of the paramedic, basic medical terminology, patient assessment, including history taking and physical examination techniques  PREQ EMC major or permission of program director  2 Lecture, 2 Lab

350 Cardiology (3)
Electrocardiography, interpretation and treatment of cardiac arrhythmias, pathophysiology, assessment, and treatment of cardiac emergencies  PREQ 340 or permission of instructor

360 Acute Respiratory and Fluid Disorders (3)
Pathophysiology, assessment and treatment of respiratory emergencies, fluid and electrolyte balance and imbalance, manifestations of shock, techniques of IV therapy, MAST, EOA, and endotracheal intubation  PREQ 340, HSCC 370  2 Lecture, 2 Lab

370 Medical Emergencies (3)
Assessment and advanced life-support for non-traumatic medical emergencies  PREQ 340 and HSCC 370 or permission of program director

382 Clinical Practicum I (1)
Experience to develop patient assessment skills  PREQ 340 or permission of program director  4 Lab

389 Cooperative Education in EMC (1 or 3, R12)
PREQ HSCC 389  See Cooperative Education Program

410 Trauma Management (3)
Assessment and management of traumatic emergencies, including patient access, stabilization, and transport, radio communications and use of ALS protocols  PREQ 360  2 Lecture, 3 Lab

420 Maternal and Child Emergency Care (3)
Obstetrical, gynecological, and pediatric emergencies  PREQ 340 and HSCC 370 or permission of program director
430 Special Needs Patients (2)  
Assessment and emergency care of the elderly and handicapped  PREQ 360 or permission of program director

452 Advanced Cardiac Life Support (1)  
The American Heart Association course leading to certification in advanced cardiac life support  PREQ 483 or permission of program director

482 Independent Study in Emergency Medical Care (2)  
PREQ Permission of instructor

483 Clinical Practicum II (1, R4)  
Experience to develop clinical competency in advanced life support assessment and skills  PREQ 350, 360, 370 12 Lab hours

484 Clinical Practicum III (3)  
Advanced clinical rotations in a hospital setting  PREQ 410, 420, 483, PSY 460 9 Lab

485 MICU Practicum (1, R3)  
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

131 American English for Non-Native Speakers I. (3)  
Prepares students for the required composition courses (101 and 102) Exceptional performance in 131 may, if criteria are met, result in a waiver for 101

132 American English for Non-Native Speakers II (3)  
A specialized writing and mechanic skills class providing further preparation for composition courses Exceptional performance and satisfaction of other criteria may result in waiver of 101
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Literary Landmarks in Western Culture (3)</td>
<td>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)</td>
</tr>
<tr>
<td>203</td>
<td>Major American Writers (3)</td>
<td>Selections from the works of Franklin, Poe, Thoreau, Melville, Hawthorne, Whitman, Dickinson, Twain, Fitzgerald, Frost, Hemingway, Faulkner, and others (P3a)</td>
</tr>
<tr>
<td>204</td>
<td>Cultures in Contact and Collision (3)</td>
<td>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)</td>
</tr>
<tr>
<td>251</td>
<td>Survey of English Literature I (3)</td>
<td>Major periods of English literature from the beginnings through the 18th century, emphasizing backgrounds and styles characteristic of each period</td>
</tr>
<tr>
<td>252</td>
<td>Survey of English Literature II (3)</td>
<td>Major periods of English literature from the 19th century through the present, emphasizing backgrounds and styles characteristic of each period</td>
</tr>
<tr>
<td>300</td>
<td>Foundation Composition (3)</td>
<td>Required of transfer students who fail the English Proficiency Examination and of any undergraduate who receives two Composition Condition marks</td>
</tr>
<tr>
<td>303</td>
<td>Introduction to Professional Writing (3)</td>
<td>Career opportunities and practices in professional writing, development of professional writing and editing skills in fiction and nonfiction, preparation of manuscripts for publication</td>
</tr>
<tr>
<td>305</td>
<td>Technical Writing (3)</td>
<td>Writing and editing technical manuals and reports, layout and production of technical document with practice in computer applications</td>
</tr>
<tr>
<td>306</td>
<td>Nonfiction Writing (3)</td>
<td>Writing and editing nonfiction for academic and commercial publications, specialized audience analysis, preparation of manuscripts for presentation at professional conferences PREQ 303 or permission of instructor</td>
</tr>
<tr>
<td>307</td>
<td>Professional Editing and Publishing (3)</td>
<td>Advanced practicum in student’s chosen area in professional writing, editing practices and production, copyright and libel law PREQ 303 or permission of instructor</td>
</tr>
<tr>
<td>308</td>
<td>Fiction Writing (3, R6)</td>
<td>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</td>
</tr>
<tr>
<td>309</td>
<td>Poetry Writing (3, R6)</td>
<td>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</td>
</tr>
<tr>
<td>310</td>
<td>Screenwriting (3)</td>
<td>Introduction to writing teleplays and screenplays, preparation of original manuscripts for agents PREQ 303 or permission of instructor</td>
</tr>
<tr>
<td>311</td>
<td>History of the English Language (3)</td>
<td>Origins and development of the English language from the beginnings to the present</td>
</tr>
<tr>
<td>312</td>
<td>Grammar for Writing (3)</td>
<td>Standard written American English as dictated by current editorial practice</td>
</tr>
<tr>
<td>Course Code</td>
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</tr>
<tr>
<td>314</td>
<td>Methods for Teaching English (3)</td>
<td>Methods, materials, curriculum, and trends in teaching in the secondary schools PREQ Admission to the teacher education program</td>
</tr>
<tr>
<td>330</td>
<td>Introduction to Literary Interpretation (3)</td>
<td>Application of major critical approaches to the study of fiction, poetry, and drama</td>
</tr>
<tr>
<td>333</td>
<td>Introduction to Shakespeare (3)</td>
<td>General survey of Shakespeare's life, times, and most popular plays, not applicable to English majors</td>
</tr>
<tr>
<td>361</td>
<td>Survey of American Literature I (3)</td>
<td>A survey of American literature from the beginnings through the Romantics</td>
</tr>
<tr>
<td>362</td>
<td>Survey of American Literature II (3)</td>
<td>A survey of American literature from the early Realists to the present</td>
</tr>
<tr>
<td>365</td>
<td>African-American Writings (3)</td>
<td>A survey of writings by African-American authors, from the earliest slave narratives through contemporary fiction and nonfiction</td>
</tr>
<tr>
<td>370</td>
<td>The Short Story (3)</td>
<td>History and development of the short story in Western literature</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education: Professional Writing (1 or 3, R15)</td>
<td>PREQ 303 See Cooperative Education Program</td>
</tr>
<tr>
<td>401</td>
<td>Writing for Careers (3)</td>
<td>Writing and editing strategies for the marketplace, writing memos, letters, resumes, reports, and other documents used in the professions, basic computer applications</td>
</tr>
<tr>
<td>405</td>
<td>Advanced Creative Writing (3)</td>
<td>Intensive study and practice of creative writing, emphasis on required individual projects PREQ Satisfactory writing sample and permission of instructor</td>
</tr>
<tr>
<td>412</td>
<td>Modern English Structure (3)</td>
<td>Application of linguistics to the study of English, comparison of approaches to the study of grammar</td>
</tr>
<tr>
<td>414</td>
<td>Fundamentals of Teaching Composition (3)</td>
<td>Contrastive analysis of teaching approaches the process, rhetorical, and linguistic/stylistic approaches</td>
</tr>
<tr>
<td>415</td>
<td>Linguistics (3)</td>
<td>The world's languages, their sound systems, word systems, and sentence patterns, relationships to culture and the mind PREQ Permission of instructor</td>
</tr>
<tr>
<td>416</td>
<td>Teaching English as a Second Language (3)</td>
<td>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</td>
</tr>
<tr>
<td>420</td>
<td>Chaucer and His Age (3)</td>
<td>Chaucer's major poetry, emphasis on <em>Troilus and Criseyde</em> and <em>The Canterbury Tales</em>, selected readings from the works of contemporaries</td>
</tr>
<tr>
<td>421</td>
<td>Fairy Tale Literature (3)</td>
<td>The genre of the fairy tale its structure and theme, its influence on children's literature as well as mainstream literature PREQ Junior or senior standing</td>
</tr>
<tr>
<td>430</td>
<td>English Literature of the Renaissance (3)</td>
<td>Representative Tudor and Jacobean prose and nondramatic poetry</td>
</tr>
</tbody>
</table>
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, and Dickens

455 The English Novel (3)
Selected 18th- and 19th-century novels of such writers as Defoe, Richardson, Fielding, Smollet, Austen, Scott, Dickens, Thackeray, and Hardy

463 American Literature Since 1945 (3)
Post-World War II American literature and its influences from other nationalities, especially those of Latin America and Canada

464 Native American Literature (3)
A survey of writings by native Americans

470 Twentieth Century Commonwealth Literature (3)
Poetry, fiction, and drama from the most prominent writers in those countries in which English is a common medium for literature

471 Modern Poetry (3)

472 Modern Fiction (3)

473 Modern Drama (3)

475 The American Novel (3)
Selected novels of major American writers

477 Literature and Gender (3)
Study of literature by or about women, the relationship of men and women in literature, feminist issues from a literary perspective PREQ Senior standing

478 Film as Literature (3, R9)
Study of film from selected times and of selected types, special attention to literary features, such as theme, plot, and characterization, and to cinematic features

479 Studies in British and American Literature (3, R6)

480 Studies in English (1-3, R6)
Independent study/directed research in English PREQ Permission of instructor and department head

483 Writing Internship (3, 3, 3)
Practical experience in a writing-related setting S/U grading PREQ 303 9 hours

484 Writing Internship (3, 3, 3)

485 Writing Internship (3, 3, 3)

486 Writing Internship (3, 3, 3)

487 Writing Internship (3, 3, 3)

488 Writing Internship (3, 3, 3)

489 Writing Internship (3, 3, 3)

490 Writing Internship (3, 3, 3)

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492 Writing Internship (3, 3, 3)

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494 Writing Internship (3, 3, 3)

495 Writing Internship (3, 3, 3)

496 Writing Internship (3, 3, 3)

497 Writing Internship (3, 3, 3)

498 Writing Internship (3, 3, 3)

499 Writing Internship (3, 3, 3)
494 Special Topics in Advanced American English for Non-Native Speakers (1, R6)
An advanced academic writing skills class for upper level undergraduates whose native language is not English. Focus will be both on rhetorical style and on mechanics (grammar and punctuation). Credit not applicable toward hours for graduation.

496 Seminar in Comparative Literature (3)
Literary classics in translation.

497 Senior Seminar in Writing (3)
Capstone course for journalism and professional writing concentrations. Minors in creative writing, journalism, and professional writing may be admitted with instructor's permission. PREQ Senior standing.

498 Senior Seminar in Literature (3)
Capstone course for the literature concentration. PREQ Senior standing.

Graduate Courses
501 Writing for Careers (3)
505 Advanced Creative Writing (3)
512 Modern English Structure (3)
514 Fundamentals of Teaching Composition (3)
515 Linguistics (3)
516 Teaching English as a Second Language (3)
518 Literary Research and Bibliography (3)
520 Chaucer and His Age (3)
521 Fairy Tale Literature (3)
530 English Literature of the Renaissance (3)
531 Shakespeare and His Age (3)
540 Milton and His Age (3)
541 The Age of Pope, Swift, and Johnson (3)
550 Major British Writers (3, R9)
551 Nineteenth-Century British Writers (3)
555 The English Novel (3)
563 American Literature Since 1945 (3)
564 Native American Literature (3)
570 Twentieth-Century Commonwealth Literature (3)
571 Modern Poetry (3)
572 Modern Fiction (3)
573 Modern Drama (3)
575 The American Novel (3)
577 Literature and Gender (3)
580 Studies in English (1-3, R6)
589 Cooperative Education Writing & Editing (3, R6)
593 Topics in Creative Writing (1-3, R6)
594 Special Topics in Advanced American English for Non-Native Speakers (1, R6)
611 Writing Seminar for Teachers (3 or 6, R6)
621 English Literature to 1500 Exclusive of Chaucer (3)
631 Shakespeare (3)
640 English Literature of the Enlightenment (3)
651 The Major Romantics (3)
661 American Literature of the Romantic Period (3)
662 American Literature Since 1855 (3)
691 Topics in English Linguistics (3, R6)
692 Studies in Renaissance Literature (3)
693 Topics in Literary Criticism (3, R6)
694 Topics in 17th- and 18th-Century Literature (3, R6)
695 Studies in 19th-Century British Literature (3, R6)
696 Topics in American Literature (3, R6)
697 Topics in Modern British/American Literature (3, R6)
698 Studies in Rhetoric (1-3, R6)
699 Thesis (3, R6)

Environmental Health (ENVH)
230 Introduction to Environmental Health Science (3)
Survey of human impacts on the environment and health problems caused by environmental factors.

310 Water Quality Control (4)
Environmental management practices related to water pollution and water quality. PREQ 230 3 Lecture, 2 Lab.

312 Solid and Hazardous Waste Management (3)
Techniques for management and disposal of solid and hazardous waste. Pollution problems associated with solid and hazardous waste. PREQ Environmental health major.

320 Institutional and Residential Environment (3)
An introduction to the basic health and safety issues in modern housing and institutional settings. PREQ 230 2 Lecture, 2 Lab.

330 Food Protection and Sanitation (4)
Principles and techniques applied to the protection of food and milk for human consumption. 3 Lecture, 2 Lab.

340 Environmental Health Practices (3)
Environmental protection through the study of environmental topics, control methods, and techniques to enhance practice. PREQ 230.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>375</td>
<td>Environmental Toxicology (3)</td>
<td>The monitoring, effects, and control of toxic materials in the environment. Mechanisms of action of toxic chemicals in humans and other organisms. PREQ 230, CHEM 133 and BIOL 292.</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Environmental Health (1 or 3, R12)</td>
<td>PREQ HSCC 389 See Cooperative Education Program.</td>
</tr>
<tr>
<td>430</td>
<td>Medical and Veterinary Entomology (4)</td>
<td>Vectors responsible for arthropod-borne diseases of medical and veterinary importance. PREQ Permission of instructor. 2 Lecture, 4 Lab.</td>
</tr>
<tr>
<td>440</td>
<td>Air Quality Control (4)</td>
<td>Evaluating and monitoring air quality, effects of pollution control and lab procedures in air quality investigation. PREQ Environmental health major. 3 Lecture, 2 Lab.</td>
</tr>
<tr>
<td>457</td>
<td>Industrial Hygiene (3)</td>
<td>Health aspects of industry relative to the environmental factors of shelter, waste, and air. PREQ Environmental health major or permission of instructor.</td>
</tr>
<tr>
<td>458</td>
<td>Environmental Regulation and Law (3)</td>
<td>Basic concepts of environmental law including the workings of the justice system, the litigation process, witness testimony, and laws. PREQ 230 or permission of instructor.</td>
</tr>
<tr>
<td>460</td>
<td>Senior Seminar in Environmental Health (1)</td>
<td>Exploration of current issues in environmental health. PREQ Senior status.</td>
</tr>
<tr>
<td>470</td>
<td>Principles of Epidemiology (3)</td>
<td>Principles and applications to investigation, control, and prevention of disease. PREQ Environmental health major or permission of instructor.</td>
</tr>
<tr>
<td>475</td>
<td>Environmental Program Administration (3)</td>
<td>Intensive study of regulatory program administration, focus on development, implementation, and evaluation of programs in the governmental sector.</td>
</tr>
<tr>
<td>480</td>
<td>Independent Study in Environmental Health (1-2, R4)</td>
<td>Supervised experience in an approved clinical or environmental health facility. PREQ Environmental health major or permission of instructor. 9 weeks, full-time.</td>
</tr>
<tr>
<td>483</td>
<td>Environmental Health Internship (3, R6)</td>
<td>Supervised experience in an approved clinical or environmental health facility. PREQ Environmental health major or permission of instructor. 9 weeks, full-time.</td>
</tr>
<tr>
<td>493</td>
<td>Topics in Environmental Health (1-3)</td>
<td>Studies in special areas of interest in environmental health. PREQ 230, permission of instructor.</td>
</tr>
</tbody>
</table>

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>570</td>
<td>Principles of Epidemiology (3)</td>
<td>655 Hazardous Materials and Waste Management (3)</td>
</tr>
<tr>
<td>575</td>
<td>Environmental Program Administration (3)</td>
<td>675 Loss Control through Industrial Hygiene (3)</td>
</tr>
</tbody>
</table>

**Finance (FIN)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>302</td>
<td>Real Estate (3)</td>
<td>Financing sources of funds, loan contracts, mortgage analysis, role of government, real estate law.</td>
</tr>
<tr>
<td>305</td>
<td>Financial Management (3)</td>
<td>Financial analysis and planning, capital management and budgeting, acquisition of funds, dividend policy. PREQ ACCT 161 or 252, ECON 231, 232.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
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</tr>
<tr>
<td>325</td>
<td>Futures and Options Markets: (3)</td>
<td>3</td>
</tr>
<tr>
<td>335</td>
<td>Commercial Banking and Financial Institutions (3)</td>
<td>3</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Finance (1 or 3, R15)</td>
<td>2-3</td>
</tr>
<tr>
<td>400</td>
<td>Insurance Planning (3)</td>
<td>3</td>
</tr>
<tr>
<td>401</td>
<td>Life Insurance (3)</td>
<td>3</td>
</tr>
<tr>
<td>403</td>
<td>Real Estate Brokerage and Finance (3)</td>
<td>3</td>
</tr>
<tr>
<td>405</td>
<td>Corporate Financial Decisions (3)</td>
<td>3</td>
</tr>
<tr>
<td>406</td>
<td>Investment Strategies (3)</td>
<td>3</td>
</tr>
<tr>
<td>407</td>
<td>International Finance (3)</td>
<td>3</td>
</tr>
<tr>
<td>409</td>
<td>Entrepreneurial Finance (3)</td>
<td>3</td>
</tr>
<tr>
<td>480</td>
<td>Independent Research (3)</td>
<td>3</td>
</tr>
<tr>
<td>493</td>
<td>Topics in Finance (1-3, R6)</td>
<td>1-3</td>
</tr>
<tr>
<td>495</td>
<td>Seminar in Financial Management (3)</td>
<td>3</td>
</tr>
<tr>
<td>496</td>
<td>Seminar in Financial Planning (3)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Graduate Courses</td>
<td></td>
</tr>
<tr>
<td>601</td>
<td>Financial Management (3)</td>
<td>3</td>
</tr>
<tr>
<td>602</td>
<td>Investment Analysis and Portfolio Management (3)</td>
<td>3</td>
</tr>
<tr>
<td>603</td>
<td>Advanced Financial Analysis (3)</td>
<td>3</td>
</tr>
<tr>
<td>682</td>
<td>Research Project in Finance (3, R6)</td>
<td>3</td>
</tr>
<tr>
<td>693</td>
<td>Topics in Finance (3, R6)</td>
<td>3</td>
</tr>
</tbody>
</table>

- **Graduate Courses:**
  - 601: Financial Management (3)
  - 602: Investment Analysis and Portfolio Management (3)
  - 603: Advanced Financial Analysis (3)
Forestry (FoR)

131 Introduction to Forest Resources (3)
The profession of forestry, its scope and opportunities, forest resource conservation and utilization, field exercises in forestry practices  
PREQ Preforestry major

French (FREN)

101 French Language and Culture (3)
Elements of understanding, speaking, reading, and writing French, concepts of grammar, lab practice required  
(P3a)

105 The French-Speaking World (3)
Study of French culture and its relationship to the cultures of countries and regions where French is spoken  
(P4)

110 Intensive French I (6)
Developing skills in understanding, speaking, reading, and writing, emphasis on oral aspects, Rassias Method  
Three hours credit only applicable to general education  
PREQ Permission of instructor  
4 Lecture, 3 Lab, 5 Drill (P3a)

132 Elementary French (3)
PREQ Placement or permission of department head

133 French for Travelers (2)
A practical guide to travel in French-speaking countries, basic conversational French, tourist information, and travel facts

231 Intermediate French I, II (3, 3)
Continuation of written and oral French grammar, readings and discussions on French culture and civilization, readings in more specialized areas, lab practice may be assigned  
PREQ 132 or equivalent or placement for 231, 231 or equivalent or placement for 232

240 Intensive French II (6)
Continuation of 110, increased emphasis on reading and writing  
PREQ Permission of instructor  
4 Lecture, 5 Lab, 5 Drill

301 French Composition (3)
PREQ 232 or equivalent or placement

302 Conversational French (3)
Advanced intermediate course emphasizing topical dialogue  
PREQ 232 or equivalent or placement

303 Applied French Conversation (3, R6)
Apprenticeship in the intensive language program  
PREQ 232 or 240, sophomore standing, selection by faculty  
10 Lab

304 Commercial French I, II (3, 3)
Review of vocabulary and styles used in French business letters, various aspects of French business institutions  
PREQ 232 or 240

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K-12  
PREQ Admission to professional sequence or permission of instructor

321 French Civilization I, II (3, 3)
Geographical, political, cultural, and historical aspects of France from its origins to the present, course division at French Revolution  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head
331 Survey of French Literature I, II (3, 3)
The main literary movements, authors, and works since the 12th century, course division at the 18th century
PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

335 Introduction to French Prose and Poetry (3)
Introduction to French literary texts, reading and analysis of literary works
PREQ 232 or 240

351 French Phonetics and General Linguistics (3)
The French sound system drill in pronunciation, articulation, intonation, and rhythm, introduction to linguistics
PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

371 Twentieth-Century French Novels in Translation (3)
Selected works by Proust, Gide, Mauriac, Camus, Saint-Exupery, and Colette
No knowledge of French required, not open to French majors

389 Cooperative Education in French (1 or 3, R15)
PREQ 301, 302 See Cooperative Education Program

393 Special Topics in French (1-3, R6)
PREQ 232 or 240

431 Studies in French Literature (3, R6)
Intensive study of an author or authors, a genre, movement, school, or literary period
PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

451 Advanced French Grammar (3)
Comprehensive study of the more difficult grammatical forms and usages
PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

452 Advanced French Conversation (3)
Discussion of selected topics, oral reports on assigned readings, situational dialogues emphasizing practical, everyday French
PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

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

Geography (GEOG)

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

103 Cultural Geography (3)
Interrelations of man, earth, and culture, the geography of race, language, religion, political and economic patterns, population growth and movements (P4)

150 Environmental Geography (3)
Survey of man's physical habitat, including weather and climate, soils, vegetation, and landforms, emphasis on phenomena that most influence man

300 Weather and Climate (4)
Meteorology (temperature, humidity, pressure, precipitation, winds, radiation), global heat budget, CO2 cycle, jet stream, air masses, fronts, storms, global distribution of climate
PREQ 150 3 Lecture, 2 Lab

302 (GEOL 302) Geomorphology (4)
Classification, description, origin, and development of landforms, relationships to underlying structures and climates
PREQ 150 and GEOL 150 3 Lecture, 2 Lab, field trip
305 (GEOL 305) Soils and Hydrology (4)

320 Map Interpretation (3)
Map analysis, topographic quadrangles, uses for navigation, geology, land-use planning, soil and vegetation studies, and aerial photos, history of maps 1 Lecture, 4 Lab

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

324 Introduction to Remote Sensing (4)
Interpretation and applications of remote sensing, satellite and aerial imagery, elementary photography, stereoscopic viewing, and photomapping
PREQ 150 or permission of instructor, GEOL 150 desirable
3 Lecture, 2 Lab

326 Research Methods in Geography (3)
Methods of measurement, observation, recording, analysis, and synthesis of data, field and lab photography, computer statistical packages, library research
PREQ MATH 170, 171, and permission of instructor 1 Lecture, 4 Lab

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

389 Cooperative Education in Geography (1 or 3, R15)
See Cooperative Education Program

400 Natural Regions of North America (3)
Regions of the United States and Canada, landforms, geology, climates, soils, 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 350 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

502 Conservation of Natural Resources (3) 564 Industrial Location and Community Development (3)
540 Topics in Regional Geography (3, R12) 591 Topics in Geography (1-3, R6)
544 Political Geography (3) 593 Special Problems (1-3, R6)
560 Urban and Regional Land Use Planning (3) 693 Special Problems in Geography (3, R6)
562 Introduction to Urban Geography (3)

Geology (GEOL)

110 Environmental Geology (3)
Evaluation of geological phenomena that shapes the human environment geohazards, water, environmental health, mineral and energy resources, global change

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 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

160 Oceanography (3)
Geology of the oceans, coastal landforms and ocean currents, climates, tides, waves, and resources

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 Paleontology (4)
Distribution, morphology, evolutionary trends, and classification of fossils. PREQ 155 or permission of instructor 3 Lecture, 2 Lab, field trip

351 Optical Mineralogy (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, includes hand specimen identification and field work PREQ 252 and CHEM 136 3 Lecture, 2 Lab

371 Structural Geology (4)
Descriptive structural geology, emphasis on outcrop and regional scale deformational features, use of maps and graphic techniques in structural analysis PREQ 150 3 Lecture, 2 Lab, field trips
389 Cooperative Education in Geology (1 or 3, R15)
   See Cooperative Education Program

420 Sedimentation (3)
   The origin, properties, and classification of sediments and sedimentary rocks
   PREQ 150 PREQ or COREQ 252 or permission of instructor 2 Lecture, 2 Lab

421 Stratigraphy (3)
   Sedimentary depositional environments and their relationships in time and space
   PREQ 420 2 Lecture, 2 Lab

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 Permission of instructor

451 Analytical Methods in Geology (3)
   Techniques used for the preparation of mineral and rock specimens for chemical
   analyses and/or instrumentation for field collection of data
   PREQ Permission of instructor 1 Lecture, 4 Lab

471 Tectonics (3)
   History and development of tectonic concepts, geometry and kinematics of plate
   mosaic, evolution of modern and ancient orogenic belts
   PREQ 352, 371, or 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

495 Senior Seminar in Geology (3)
   Readings in current topics in geology. Written and oral presentation of student library
   research
   PREQ Senior standing or permission of instructor

498 Senior Thesis (2, R4)
   An original research project culminating in a written thesis and public presentation of
   results
   Projects may last 1 or 2 semesters
   Senior standing
   PREQ Permission of instructor 4 Lab

Graduate Courses
541 Economic Mineral Resources (3) 601 Earth Sciences (3, 3)
551 Analytical Methods in Geology (3) 602
591 Topics in Geology (1-3, R6) 693 Topics in Geology (1-3, R6)
593 Special Problems in Geology (2, R4)

German (GER)

101 German Language and Culture (3)
   Elements of understanding, speaking, reading, and writing German, grammatical
   concepts, lab practice required (P3a)

110 Intensive German I (6)
   Developing skills in understanding, speaking, reading, and writing, emphasis on oral
   aspects, Rassias Method
   Three hours credit only applicable to general education
   4 Lecture, 3 Lab, 5 Drill
   PREQ Permission of instructor (P3a)

132 Elementary German (3)
   PREQ Placement or permission of department head
204 A Literary Perspective on 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 as-
signed PREQ 132 or equivalent or placement for 231, 231 or equivalent or place-
ment for 232

240 Intensive German II (6)
Continuation of 110, increased emphasis on reading and writing 4 Lecture, 5 Lab, 5
Drill PREQ Permission of instructor

301 German Composition (3)
PREQ 232 or equivalent or placement

302 Conversational German (3)
Advanced intermediate course emphasizing topical dialogue PREQ 232 or equivalent or
placement

303 Applied German Conversation (3, R6)
Apprenticeship in the intensive language program PREQ 232 or 240, sophomore
standing, selection by faculty 10 Lab

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K-12 PREQ Admis-
sion to professional sequence or permission of instructor

321 German Civilization I, II (3, 3)
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 Cooperative Education Program

393 Special Topics in German (1-3, R6)
PREQ 232 or 240

431 Studies in German Literature (3, R6)
Intensive study of an author or authors, genre, literary movement, school, or literary
period PREQ 232 or 240 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)

250 First Aid and Safety Education (2)
Prevention and care of accidents and injuries, including American Red Cross training courses

255 Outdoor First Aid (3)
Training for outdoor professionals to administer comprehensive first aid in remote areas. Possible certification through the National Ski Patrol for Winter Emergency Care and CPR. 2 Lecture, 2 Lab

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 Comprehensive Health Education (3)
Comprehensive health education including a philosophy and strategies for teaching comprehensive health education, and study of selected topics related to personal and community health problems. PREQ Junior standing

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

Health Information Management (HIM)

301 Introduction to Health Information Management (3)
Orientation to medical institutions, history of medical records, components, development, and use of health information, functions of health information departments

303 Planning and Organizing in Health Information Management (2)
Applications of principles of planning and organizing in the management of health information services. PREQ 301, COREQ 321

310 Fundamentals of Clinical Medicine for Health Information Management (3)
Study of disease processes with emphasis on etiology, signs and symptoms, complications, and current treatment. PREQ BIOL 291, 292 and HSCC 220, 260

321 Health Information Management Practice Lab (1)
Health information computer applications and introduction to acute-care facility health information services through limited clinical practice. COREQ 303. 3 Lab
389 Cooperative Education in Health Information Management (1 or 3, R12)  
See Cooperative Education Program

401 Regulation of Health Care Facilities (3)  
Accreditation and regulation of health-care facilities, continuous quality improvement, utilization management, DRGs, medical staff organization  COREQ 404, 484

402 Controlling Resources in Health Information Management (2)  
Application of principles of production, budgeting, and cost control in the management of health information services  PREQ 303

403 Health Data Collection (3)  
Computing, reporting, displaying, interpreting, and analyzing health-care statistics  Principles of applied research for the health information profession  COREQ 404

404 Health Information Classification Systems I (4)  
Basic ICD-9-CM coding for inpatients and outpatients, coding for prospective payment  PREQ 301, 310  COREQ 401, 403, 484  3 Lecture, 3 Lab

405 Health Information Classification Systems II (3)  
Basic CPT-4 coding for ambulatory patients  Advanced ICD-9-CM coding for prospective payment  PREQ 404  COREQ 485, 486, 495  2 Lecture, 3 Lab

406 Topics in Health Information Management (4)  
Various current topics in HIM projects in inservice education, data quality, and records in non-acute-care facilities  COREQ 485, 486, 495  3 Lecture, 3 Lab

483 Clinical Practicum I (1)  
Introduction to health information department functions in an acute-care facility  PREQ 301  COREQ 484  60 hours

484 Clinical Practicum II (2)  
Supervised practice in an acute-care facility  COREQ 401, 402, 403, 404, 483  120 hours

485 Clinical Practicum III (1)  
Supervised practical application of previously studied theory related to health information functions in non-acute-care facilities and other healthcare-related facilities  COREQ 405, 406, 486, 495  60 clinical practice hours

486 Clinical Practicum IV (3)  
Supervised practical application in an acute-care facility of previously studied theory related to supervision and management of health information department personnel and functions  COREQ 405, 406, 485, 495  180 clinical practice hours

495 Seminar in Health Information Management (3)  
Discussion of problems the student may expect to encounter in health information management, research paper required, national registration exam simulation  COREQ 405, 406, 483, 486

Health Sciences (HSCC)

130 Introduction to Health Professions (3)  
Survey of health specialties, the health sciences, and the preparation, values, and perspectives of health professionals, roles of members of the health-care team

220 Medical Terminology (3)  
The meaning, construction, and use of terms in the medical and health sciences, standard medical abbreviations
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>231</td>
<td>Introduction to Health Promotion and Disease Prevention for Preschool Children</td>
<td>3</td>
<td>An introduction to child growth and development, nutrition, and health promotion, primarily with Head Start-eligible children and their families. Lecture, Lab</td>
</tr>
<tr>
<td>232</td>
<td>Strategies for Health Promotion and Health Maintenance with Preschool Children</td>
<td>3</td>
<td>Emphasis on acquisition and development of skills in history taking, screening activities, and planning and participating in the health care of Head Start-eligible children. PREQ 231 Lecture, Lab</td>
</tr>
<tr>
<td>233</td>
<td>Practicum: Health Promotion and Disease Prevention in Preschool Programs</td>
<td>3</td>
<td>Emphasis on application and refinement in a field setting of knowledge and skills previously learned in HSCC 231 and 232. Lab</td>
</tr>
<tr>
<td>240</td>
<td>Introduction to Emergency Medical Care</td>
<td>3</td>
<td>Basic life support, assessment and care of traumatic and medical emergencies, patient stabilization, meets state First Responder requirements.</td>
</tr>
<tr>
<td>241</td>
<td>Basic Emergency Medical Techniques</td>
<td>2</td>
<td>Patient assessment, CPR, airway management, splinting and bandaging, childbirth, rescue, and extrication. PREQ or COREQ 240 Lab/field</td>
</tr>
<tr>
<td>260</td>
<td>Etiology of Infectious Diseases</td>
<td>3</td>
<td>Disease-causing bacteria, viruses, rickettsia, fungi, and animal parasites, disease-producing mechanisms and resistance to infection. Lecture, Lab</td>
</tr>
<tr>
<td>310</td>
<td>Principles of Clinical Precepting</td>
<td>1</td>
<td>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.</td>
</tr>
<tr>
<td>330</td>
<td>Legal and Legislative Aspects of Health Care</td>
<td>1-3</td>
<td>The legal aspects of health care and legislative forces affecting it, impact on practitioners.</td>
</tr>
<tr>
<td>370</td>
<td>Introduction to Pharmacology</td>
<td>1-3</td>
<td>Principles, including the dynamics of drug activity, synthesis, and toxicity in drug therapy. PREQ Permission of instructor.</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Health Sciences</td>
<td>1 or 3, R15</td>
<td>See Cooperative Education Program.</td>
</tr>
</tbody>
</table>

**Graduate Course**
Graduate courses are listed in the Graduate Catalog under Master of Health Sciences (MHS).

**Health Services Management and Supervision (HSMS)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>320</td>
<td>Human Resource Management in Health Care Agencies</td>
<td>3</td>
<td>Selected knowledge and skills related to recruiting, interviewing, selecting, training, and evaluating human resources in health care agencies.</td>
</tr>
<tr>
<td>330</td>
<td>Health Care Delivery Systems</td>
<td>3</td>
<td>Structures, components, and functions of the health care system, links with the nation's social, economic, and political entities, factors affecting consumer demand.</td>
</tr>
<tr>
<td>340</td>
<td>Perspectives in Health Care</td>
<td>3</td>
<td>Problems related to factors affecting health care agencies, cost, availability, and distribution of services.</td>
</tr>
</tbody>
</table>
450 Financial Management in Health Care (3)
Selected knowledge and skills related to budgeting and the financial management of clinical departments and service units PREQ 320, 340, or permission of instructor

460 Management of Health Resources (3)
Concepts of resource management in healthcare delivery, the supervision process and related skills as applied in various health-related facilities

493 Problems in Health Care Management (3)
Seminar on current issues, major paper required PREQ HSMS or EMC major

495 Seminar in Health Sciences (1)
Current literature and research on selected topics PREQ health science major or permission of instructor

Graduate Courses
Graduate courses are listed in the Graduate Catalog under Master of Health Sciences (MHS)

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) 783 Internship Two-Year College Administration II (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 background 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 (P1b)

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)

221 European History to 1648 (3)
Social, cultural, economic, and political developments that shaped European civilization from earliest times through the Reformation

222 European History Since 1648 (3)
Social, cultural, economic, and political developments that shaped European civilization since the Reformation

231 American History to 1865 (3)

232 American History Since 1865 (3)

297 Sophomore Seminar (3)
Historical methods, historiography, and directed research
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

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 transformation and 19th-century growth and reform, rise of the welfare state

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

330 Modern Germany (3)
Germany from 1815 to the present, with emphasis on development in the 19th and 20th centuries in terms of political evolution and international situation

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

370 Early China (3)
A chronological introductory survey of all aspects of traditional Chinese society from prehistory to the end of the 1700s

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

389 Cooperative Education in History (1 or 3, R15)
See Cooperative Education Program

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

412 Early Modern Europe (3)
The Reformation, development of the modern state, Scientific Revolution, rise of capitalism, social change
<table>
<thead>
<tr>
<th>Topic</th>
<th>Subtopic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe in the Eighteenth Century</td>
<td>The Old Regime, wars of expansion, the Enlightenment, the French Revolution and Napoleon</td>
</tr>
<tr>
<td>Europe in the Nineteenth Century</td>
<td>Post-Napoleonic settlement, internal, colonial, and imperial developments, unification movements, background for World War I</td>
</tr>
<tr>
<td>Europe in the Twentieth Century</td>
<td>World War I, the Paris Peace Conference, domestic developments, the rise of &quot;isms&quot; in Russia, Italy, and Germany, World War II, postwar reconstruction and reorganization, the Cold War</td>
</tr>
<tr>
<td>Colonial America, 1492-1763</td>
<td>Political, social, economic, and cultural characteristics</td>
</tr>
<tr>
<td>The Revolutionary Era, 1763-1800</td>
<td>Causes and effects of the revolution, the War for Independence, the Constitution, the Federalist Era</td>
</tr>
<tr>
<td>The Young Republic, 1800-1848</td>
<td>Jeffersonian democracy, War of 1812, Era of Good Feelings, Jacksonian democracy, western expansion, the Mexican War</td>
</tr>
<tr>
<td>Civil War and Reconstruction, 1848-1877</td>
<td>Sectional differences, the secession movement, military operations, Reconstruction</td>
</tr>
<tr>
<td>Emergence of Industrial America, 1877-1920</td>
<td>Growth and conflict of organized industry and labor, agrarian decline and revolt, American imperialism, progressive reform, World War I, postwar crises</td>
</tr>
<tr>
<td>The United States Since 1920</td>
<td>Roaring Twenties, Great Depression, New Deal, World War II, role as Cold-War superpower, domestic developments</td>
</tr>
<tr>
<td>History of Black America</td>
<td>Role of the Black in American history, African background, religious, cultural, economic, and political institutions, trends toward assimilation, black nationalism</td>
</tr>
<tr>
<td>The American South</td>
<td>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</td>
</tr>
<tr>
<td>Cherokee History</td>
<td>Pre-contact Cherokee society, acculturation, removal, post-removal development of the Cherokee Nation West and the Eastern Band of the Cherokees</td>
</tr>
<tr>
<td>Southern Appalachian Culture</td>
<td>History and folkways in the period of geographic isolation, changes in regional culture in an age of improved transportation and communications</td>
</tr>
<tr>
<td>Women in American History</td>
<td>Historic role of women, attitudes in various periods, women in American culture, the women's rights and feminist movements</td>
</tr>
<tr>
<td>History of the Mexican Nation</td>
<td>Mexico since 1810, 19th-century conflicts, revolution, 1910-1917, progress to the present</td>
</tr>
<tr>
<td>Local History and Genealogy</td>
<td>Role of the family and community in shaping state, regional, and national developments, emphasis on research techniques and local resources Lecture and fieldwork</td>
</tr>
</tbody>
</table>
473 Archives and Museum Management (3)
Preservation, management, and display of archival materials and museum artifacts, with emphasis on museum management. Lecture and fieldwork.

475 Historical Editing (3)
Analysis of manuscripts, government documents, and transcripts of oral testimony, emphasis on evaluation, selection, transcription, and annotation of materials and completion of an editorial project. Lecture and fieldwork.

478 Historic Sites and Historic Preservation (3)
Aspects of historic preservation, emphasis on aesthetic, legal, financial, and public relations considerations. Lecture and fieldwork.

483 Internship Project in History (3, 3, 3)
Work experience on historical problems, written assignments required. S/U grading.

485 9 hours per week per course.

493 Topics in History (3, R12)
A comparative study of European and American ideas and institutions and the impact on the history of each culture. PREQ: Permission of department head.

Graduate Courses:

511 Western Imperialism, 1800 to the Present (3)
512 Early Modern Europe (3)
513 Europe in the 18th Century (3)
514 Europe in the 19th Century (3)
516 Europe in the 20th Century (3)
531 Colonial America, 1492-1763 (3)
532 The Revolutionary Era, 1763-1800 (3)
533 The Young Republic, 1800-1848 (3)
534 Civil War and Reconstruction, 1848-1877 (3)
535 Emergence of Industrial America, 1877-1920 (3)
536 The United States Since 1920 (3)
542 History of Black America (3)
543 The American South (3)
545 Cherokee History (3)
546 Southern Appalachian Culture (3)
551 Women in American History (3)
563 History of the Mexican Nation (3)
572 Local History and Genealogy (3)
573 Archives and Museum Management (3)
575 Historical Editing (3)
578 Historic Sites and Historic Preservation (3)
589 Cooperative Education in History (3)
593 Topics in History (3, R12)
631 American Histoigraphy (3)
680 Readings in History I, II, III, IV (3, R6 per course)
681 Internship in History (1-3, R3)
693 Problems in American History (3, R9)
695 Seminar in American History and American Studies (3)
699 Thesis (3, R12)

Home Economics (HE)

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

270 Optimal Living (3)
Optimizing daily living throughout the life span for individuals and families through food and nutrition, clothing and textiles, and environmental interiors.

311 Home Economics Curriculum and Materials (3)
Programs for consumer, homemaking, and occupational home economics.

317 Teaching Methodology (3)
Methods and teaching strategies for application of knowledge and skill in individual and classroom instruction. Emphasis on discussion, simulation of function, and task roles. PREQ: Admission to teacher education program or permission of department head.

321 Family Finance (3)
Management of financial resources in relation to individual and family needs, goals, and values, consumer problems.
389 Cooperative Education in Home Economics (1 or 3, R15)
   See Cooperative Education Program

410 Consumer Strategies (3)
   The relationship of individuals to their natural and man-made environments and the
   interplay that shapes the functioning of families as consumers  PREQ 270

480 Independent Study in Home Economics (1-3, R6)
   PREQ Permission of instructor

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student's career field
485 S/U grading  9 hours per week per course

493 Topics in Home Economics (1-3, R6)
495 Professional Seminar (1)
   The role of professionalism in gainful employment and career advancement  S/U
   grading

Graduate Courses
514 (IET 514) Career Exploration (3)  652 Computer Applications in Home Economics
593 Topics in Home Economics (1-3, R6)  654 Creative Ergonomics (3)
601 Professional Issues (3)  680 Independent Study in Home Economics (1-3, R6)
602 (IET & OA 602) Vocational Education History and Philosophy (3)  681 Research Project (3)
610 (IET 610) Vocational/Technical Evaluation (3)  693 Topics in Home Economics (1-3, R6)
611 Program Development in Home Economics (3)  699 Thesis (3, R6)
620 Contemporary Consumer Issues (3)

Hospitality Management (HM)
130 Introduction to the Hospitality Industry (3)
   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

335 Lodging Management (3)
   Functions of management applied to lodging operations, emphasis on procurement,
   principle and techniques in hotel room division management  2 Lecture, 2 Lab· PREQ
   130

338 Computer Applications in the Hospitality Industry (3)
   Application of computer technology in the hospitality industry  PREQ 335, COREQ
   333

339 Cost Control in the Hospitality Industry (3)
   Theories and techniques of controlling costs of food and beverage, and labor cost in
   hotels and restaurants, analysis and evaluation of financial performance of the settings
   PREQ ACCT 161 or 251

389 Cooperative Education (1 or 3, R15) See Cooperative Education Program

430 Food Systems Management (3)
   Functions of management applied to food service systems, emphasis on food service
   equipment, layout and design, menu development, procurement, and production man-
   agement  PREQ 333, COREQ MGT 300
431 Hospitality Marketing Management (3)
Application of marketing principles and practices in the hospitality industry, emphasis on consumer behavior, market analysis, marketing mix. PREQ 333, 335, MKT 301

433 Strategic Planning in the Hospitality Industry (3)
Application of theories and concepts of strategic management in hospitality management, cases in hospitality industry, domestic and multinational, are analyzed. PREQ 335, 339, 430, and 431

480 Independent Study (1-3, R6)

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student’s career field
485 S/U grading. PREQ Permission of instructor. 9 hours per week per course

Graduate Courses
532 Food Systems Management II (3)

Human Resource Development (HRD)

Graduate Courses
589 Cooperative Education in Human Resource Development (3)
610 Human Resource Development (3)
612 Instructional Design (3)
620 The Design and Use of Instructional Gaming Simulations (3)
660 Career Development/Management Systems (3)

Program Evaluation (3)
Managing the Human Resource Development Function (3)
Field Experience in Human Resource Development (3)
Topics in Human Resource Development (3, R6)
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

230 Industrial Distribution (3)
The flow of industrial goods and services through the industrial distributor

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

370 Product Management and Inventory Control (3)
The study of the many aspects of industrial distribution product management. Topics to be covered may include computer systems and their uses, purchasing, and warehouse management. PREQ 230 or permission of instructor

479 Industrial Distribution Seminar (3)
Covers through research, lecture and field trips, electronic data interchange, just-in-time distribution, distribution finance, bar coding, take-offs and quotes from catalogs and specifications, other innovative concepts. PREQ 230, 360, or permission of instructor

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

493 Special Topics (1-3, R6)
PREQ Industrial distribution major and permission of instructor
Industrial and Engineering Technology (IET)

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

151 Introduction to Drafting (3)
Orthographic and axonometric drawing including multiview; isometric, dimetric, trimetric, cavalier and cabinet obliques, dimensioning, sectioning and assemblies, surface treatments 2 Lecture, 2 Lab

152 Architectural Drafting and Design I (3)
Designing and drawing a set of residential plans, concepts and techniques of house construction, building codes PREQ 151 or permission of instructor 2 Lecture, 2 Lab

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

310 CADD for Interior Design (3)
Computer-aided drafting for interior designers, applications of AutoCad and PowerDraw software to produce two-dimensional drawings PREQ 152, IDSN 253, satisfaction of computer literacy requirement, or permission of instructor

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

320 Power Technology (4)
Forms of energy and prime movers used by men to increase their value and utility Energy converters, power transmission, control components and systems 3 Lecture, 2 Lab

330 Industrial Arts for the Elementary Teacher (2)
Industrial procedures, tools, materials, and projects suitable for the elementary school 1 Lecture, 2 Lab

341 Alternate Energy Sources (3)
Overview of alternate energy sources, active and passive solar energy, wind energy, hydroelectricity, other topics

342 Architectural Construction Processes (3)
Principles and processes for producing marketable buildings as these relate to the North Carolina Building Code 2 Lecture, 2 Lab.

352 Architectural Drafting and Design II (3)
Furniture and architectural design, dimensioning, detailing, and illustration PREQ 152 or permission of instructor 2 Lecture, 2 Lab

353 Orthographic Rendering and Design (3)
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 151, 152 or permission of instructor

389 Cooperative Education in Industrial Technology (1 or 3, R15)
See Cooperative Education Program

400 Recreational Crafts (3)
Activities for schools, camps, churches, retirement centers, and other recreational programs 2 Lecture, 3 Lab
409 History and Philosophy of Vocational Education (3)

410 Topics in CADD (3, R6)
Advanced applications using state-of-the-art CAD programs, operating systems, hardware configurations and operational procedures  PREQ MET 231 or IET 310 or permission of instructor

420 Polymer Technology (4)
Industrial fabrication techniques, topics in polymer science and mold construction  3 Lecture, 2 Lab

421 Ergonomics (3)
Theories and applications of ergonomic principles for the industrial setting  PREQ Technology major and senior standing or permission of instructor

422 Advanced Polymer Technology (3)
Theory and application of molding processes, emphasis on thermoplastic and thermoset injection, topics in polymer science and microprocessing

424 Facilities Management and Maintenance (3)
Introduction to management and maintenance of residential, commercial, and industrial building systems  Systems for heating, cooling, electrical, communications, water, waste water, protective coatings and roofing  PREQ Junior standing

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

434 Plant Layout (3)
Problem analyses and design of plant facilities, plant layout, material flow, and handling, physical storage systems  PREQ Technology major and senior standing

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 permission of instructor

437 Student Organizations in Vocational Education (3)
Techniques of planning and advising organizations

472 Robotics and Industrial Electronics (3)
Electronic sensing, logic, and control functions applied to electromechanical systems, review of basic robot designs and applications  PREQ IT 371  2 Lecture, 2 Lab

480 Problems in Industrial and Engineering Technology (1-3, R6)
Independent study in industrial, technical, or vocational education, project required  PREQ Permission of advisor and instructor

493 Special Topics (1-3, R6)
PREQ Permission of instructor
### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>514 (HE 514)</td>
<td>Career Exploration (3)</td>
</tr>
<tr>
<td>522</td>
<td>Advanced Polymer Technology (3)</td>
</tr>
<tr>
<td>524</td>
<td>Facilities Management and Maintenance (3)</td>
</tr>
<tr>
<td>560</td>
<td>Industrial Materials and Processes (3)</td>
</tr>
<tr>
<td>570</td>
<td>Advanced Electronics (3)</td>
</tr>
<tr>
<td>589</td>
<td>Cooperative Education in Industrial Technology (3, R6)</td>
</tr>
<tr>
<td>602 (OA &amp; HE 602)</td>
<td>Vocational Education History and Philosophy (3)</td>
</tr>
<tr>
<td>593</td>
<td>Topics in Ind and Engineering Tech (1-3, R6)</td>
</tr>
<tr>
<td>610 (HE 610)</td>
<td>Vocational/Technical Evaluation (3)</td>
</tr>
<tr>
<td>630</td>
<td>Trends in Industrial Education (3)</td>
</tr>
<tr>
<td>632</td>
<td>Administration of Industrial Education (3)</td>
</tr>
<tr>
<td>636</td>
<td>Cooperative Vocational Education (3)</td>
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<tr>
<td>640</td>
<td>Value Analysis (3)</td>
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<tr>
<td>641</td>
<td>Quality Assurance (3)</td>
</tr>
<tr>
<td>642</td>
<td>Computerized Production Techniques (3)</td>
</tr>
<tr>
<td>650</td>
<td>Program Planning in Vocational/Technical Education (3)</td>
</tr>
<tr>
<td>670</td>
<td>Research Methods in Vocational/Technical Education (3)</td>
</tr>
<tr>
<td>680</td>
<td>Independent Study (3, R6)</td>
</tr>
<tr>
<td>695</td>
<td>Seminar in Industrial and Engineering Technology (1-3, R3)</td>
</tr>
<tr>
<td>699</td>
<td>Thesis (3, R6)</td>
</tr>
</tbody>
</table>

### Industrial Technology (IT)

- **335 Industrial Safety (3)**
  - Standards and practices for industrial and educational safety related to local, state, and federal safety regulations.

- **336 Environmental Instrumentation (3)**
  - Basic instrumentation techniques used to measure industrial safety and health hazards
  - **PREQ** 335 2 Lecture, 2 Lab

- **337 Management of Safety Systems (3)**
  - Comprehensive, organized management approach for identifying, measuring, and reducing operational errors leading to accidents
  - **PREQ** 335

- **338 Fire Control and Compliance Management (3)**
  - Emergency planning, compliance with standards, recognition of fire hazards, implementation of controls, and extinguishing agents and methods
  - **COREQ** 335

- **370 Electricity (3)**
  - Direct and alternating current sources, circuits, circuit analysis
  - **PREQ** MATH 144 or 145, PHYS 130 2 Lecture, 2 Lab

- **371 Electronics (3)**
  - Solid state devices, power supply, amplifiers, and logic circuits
  - **PREQ** 370 or EET301 2 Lecture, 2 Lab

- **423 Fluid Systems (3)**
  - Basic fluid mechanics, hydraulic and pneumatic systems used in industrial manufacturing processes
  - **PREQ** MATH 144 or 145, PHYS 130 2 Lecture, 2 Lab

- **495 Industrial Technology Seminar (3)**
  - Trends, issues and selected topics pertinent to industrial operations and practices
  - **PREQ** Industrial technology major and senior standing

### Interior Design (IDSN)

- **153 Introduction to Interior Design (2-3)**
  - Study of principles and elements of design as applied to interior environments and creative problem solving
  - **COREQ** 256 2 Lecture, 2 Lab (optional)

- **253 Space Planning (3)**
  - Evaluation of principles and elements of universal design as related to residential/commercial floor plans and spatial models
  - **PREQ** IET 152 or permission of instructor
  - **COREQ** 153 1 Lecture, 4 Lab
256 Survey of Interior Materials (3)
Analysis of manufacturing process, source, specification and application of interior materials  COREQ 153 or permission of instructor

259 Portfolio Review I (1)
A faculty review of all student art and interior design work during the last sophomore semester  S/U grading  PREQ 253, 256, IET 151, 152  ART 131 or permission of instructor

351 Lighting Design and Color (4)
Survey of natural and artificial lighting, sources, physiological and psychological response to light and color  Application of light and color to residential/commercial interiors  PREQ 256, IET 152  2 Lecture, 4 Lab

353 Residential Design (4)
Fundamentals of interior planning with emphasis on residential environments, design methodology, floor plans, spatial concepts elevations, material application and presentation  PREQ 355 or 358  COREQ 259  2 Lecture, 4 Lab

355 History of Architecture and Furnishings I (3)
Survey of architecture and furniture from ancient times to the 19th century

357 Contract Design I (4)
Fundamentals of interior planning with emphasis on commercial/institutional environments, design methodology, floor plans, spatial concepts, elevation material application and presentation  PREQ 351, 353  2 Lecture, 4 Lab

358 History of Architecture and Furniture II (3)
Development of architecture and furniture from 19th century to the present

359 Perspective Drawing (4)
Application of free-hand technical drawing as related to rendering techniques of interior and exterior spaces  PREQ 353, ART 131, IET 151 or 152  or permission of instructor  2 Lecture, 4 Lab

389 Cooperative Education in Interior Design (1 or 3, R15)
See Cooperative Education Program

456 Contract Design II (4)
Comprehensive application of facility management and programming as related to commercial and/or institutional projects  PREQ 357  2 Lecture, 2 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 II (1)
A comprehensive faculty evaluation of student interior design projects during the last semester  PREQ 456 or permission of instructor

460 Problem Solving in Design (4)
Creative problem solving provides an opportunity to apply advanced design concepts and/or theories in a specific area of study  PREQ 456 or permission of instructor  2 Lecture, 4 lab

480 Independent Study in Interior Design (1-3, R6)
PREQ Permission of instructor
483 Internship (3, 3, 3)
Integration of theory and practice in a setting appropriate to the student’s career field
S/U grading  PREQ 357, 358, or permission of instructor  9 hours per week per course

493 Topics in Interior Design (3, R9)
Examination of current topics and trends in interior design  PREQ Permission of instructor

Management (MGT)

300 Introduction to Management (3)
Principles, issues, and practices of modern management, the production process in creating goods and services, behavioral concepts pertinent to managerial functions
COREQ HM 430 for HM majors

301 International Management (3)
Issues in the management of international enterprises, adaptation of managerial functions and skills to the international business environment  PREQ 300

302 Labor-Management Relations (3)
Critical roles of labor unions, legislative bodies, and governmental regulation, alternative strategies in impasse resolution  PREQ 300

304 Personnel Management (3)
Recruiting, training, evaluating, and rewarding human resources, developing and implementing effective personnel programs  PREQ 300

305 Quantitative Business Analysis (3)
Models for decision making in production and operations management, linear programming, transportation and assignment, probabilistic models, forecasting, inventory and network analysis, queuing theory, simulation  PREQ ECON 235  COREQ 300

306 Behavioral Science in Organizations (3)
Examination of individual and collective human behavior in organizations, including the processes of motivation and leadership, recognizing implications of individual and cultural diversity  PREQ 300

389 Cooperative Education in Management (1 or 3, R15)
See Cooperative Education Program

400 Organization Theory (3)
Structure and process at the organizational level, size, complexity, formalization, goals, centralization and decentralization, and environment  PREQ 306

401 Small Business Management (3)
Operations and strategies of small firms, integration of functional areas, economic, social, political, technological, and governmental factors  PREQ Permission of instructor

402 Production and Operations Management (3)
Management processes for the creation of products and services, analytical techniques and controls  PREQ 305

405 Compensation Management (3)
Theory from economics and the behavioral sciences, public policy regarding pay, pay surveys, job evaluation, performance appraisal, and incentive plans  PREQ 304

407 Interpersonal Behavior (3)
Awareness and competence in managerial interpersonal relationships, listening behavior, examination of self concept  PREQ 300

480 Independent Research (3)
PREQ Permission of department head
332 Quality Control II (3)
Supervised work or research 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 Management (1-3, R6)
PREQ Permission of department head.

495 Seminar in Management (3)
Integration of management concepts, development of management knowledge and skills, preparation for the professional world of work. PREQ or COREQ All management business core and management major courses.

Graduate Courses:

605 Organizational Behavior and Analysis (3)
606 Quantitative Analysis for Business I (3)
607 Strategic Management (3)
608 Personnel Administration (3)
609 The Collective Bargaining Process (3)
611 Production and Operations Management (3)
613 Management of International Operations (3)
614 Managerial Career Development (3)

670 Project Management Systems (3)
672 Human Resource Management in Projects (3)
674 Project Contract and Logistics Management (3)
676 Specialized Project Management Techniques I (3)
677 Specialized Project Management Techniques II (3)
678 Project Management Organization and Policy (3)
682 Research Project in Management (3, R6)
693 Topics in Management (3, R6)

Manufacturing Engineering Technology (MET)

132 Engineering Graphics (3)
Forms of industrial drawing, orthographic and pictorial projections, sketching and basic drawing board procedures. 2 Lecture, 2 Lab.

141 Manufacturing Materials and Processes (3)
Fundamentals of industrial materials, their mechanical, physical, and chemical nature as related to manufacturing processes. 2 Lecture, 2 Lab.

231 Engineering CADD (3)
Exposure to the broad spectrum of automated graphics and computer-aided design. PREQ 132 2 Lecture, 2 Lab.

242 Machining Processes (3)
Techniques of industrial machining processes. PREQ 132, 141, MATH 144 or 145, PHYS 130 2 Lecture, 2 Lab.

321 Statics and Strength of Materials (3)
Study of forces and the effect of forces acting on static bodies, including the stresses and deflections or deformations from applied loads. PREQ 132, MATH 146, PHYS 130 2 Lecture, 2 Lab.

331 Quality Control I (3)
Techniques for monitoring and assuring quality. PREQ 141, and MATH 170, or permission of instructor. 2 Lecture, 2 Lab.

332 Quality Control II (3)
A continuation of MET 331 with emphasis on probability distribution, sampling, advanced control charting, reliability and design of experiments. PREQ 331 and MATH 170, or permission of instructor. 2 Lecture, 2 Lab.

341 CNC Machining Technology (3)
Programming, procedures, formats, standards, and protocols commonly used in the control of industrial machine tools. PREQ 231, 242, and MATH 146 2 Lecture, 2 Lab.

342 Manufacturing Analysis and Planning (3)
Analysis of manufacturing system efficiency. Throughout calculation, identification of bottlenecks, inventorying systems, production systems. PREQ 141, MATH 170.
<table>
<thead>
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<th>Course Number</th>
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<tbody>
<tr>
<td>366</td>
<td>Manufacturing Materials and Processes (3)</td>
<td>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.</td>
</tr>
<tr>
<td>393</td>
<td>Topics in Engineering Technology (1-3, R9)</td>
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</tr>
<tr>
<td>431</td>
<td>Automated Manufacturing (3)</td>
<td>Automated manufacturing systems, strategies, and methods commonly used in modern manufacturing. Emphasis on control methods and computer integration. PREQ 231, 342 and EET 302 and CS 130, or permission of instructor. 2 Lecture, 2 Lab.</td>
</tr>
<tr>
<td>436</td>
<td>Engineering Economic Analysis (3)</td>
<td>The study of economics as applied to engineering decision making. PREQ 342 and MATH 144 or 145, or permission of instructor.</td>
</tr>
<tr>
<td>441</td>
<td>Fluid Power and Systems Analysis (3)</td>
<td>The study of hydrostatic fluid power components and systems specifically focused on industrial and manufacturing applications. PREQ 231 and PHYS 130 and MATH 153, or permission of instructor. 2 Lecture, 2 Lab.</td>
</tr>
<tr>
<td>463</td>
<td>Manufacturing Planning and Cost Estimating (3)</td>
<td>Correlation of design and manufacturing requirements, planning manufacturing operations for parts and assemblies, time/cost estimates. PREQ ID 130.</td>
</tr>
<tr>
<td>478</td>
<td>Senior Design Project Proposal (1)</td>
<td>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. COREQ 479.</td>
</tr>
<tr>
<td>479</td>
<td>Senior Design Project (3)</td>
<td>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.</td>
</tr>
<tr>
<td>493</td>
<td>Special Topics (1-3, R6)</td>
<td>PREQ Permission of instructor.</td>
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</table>

**Graduate Courses**

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<tr>
<th>Course Number</th>
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<tbody>
<tr>
<td>536</td>
<td>Engineering Economic Analysis (3)</td>
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</table>

**Marketing (MKT)**

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>Principles of Marketing (3)</td>
<td>Introduction to marketing principles and problems.</td>
</tr>
<tr>
<td>302</td>
<td>Marketing Communications (3)</td>
<td>Role of communication in marketing, mass communications, media costs, audience analysis. PREQ 301.</td>
</tr>
<tr>
<td>303</td>
<td>Marketing Research (3)</td>
<td>The role of research in marketing decisions, emphasis on data gathering, compilation, analysis, and interpretation. PREQ 301, ECON 235.</td>
</tr>
<tr>
<td>304</td>
<td>Consumer Behavior (3)</td>
<td>Interdisciplinary study of buyer motivation and behavior, contributions of the behavioral sciences to consumer purchasing decision processes. PREQ 301.</td>
</tr>
<tr>
<td>306</td>
<td>Professional Selling (3)</td>
<td>Sales persuasion skills, theories, and principles, simulated selling situations. PREQ 301.</td>
</tr>
</tbody>
</table>
389 Cooperative Education in Marketing (1 or 3, R15)
See Cooperative Education Program

403 Advertising Management (3)
Planning and production of a professional advertising campaign  PREQ 302

404 Retailing Management (3)
Retailing organization and management, including store location, merchandise manage-
ment, expense analysis and control, and current issues and trends

405 Marketing Management (3)
Marketing decision making studied from the manager's viewpoint, emphasis on market
analysis, planning, and strategy development  PREQ 301

406 Channels of Distribution (3)
Theory and concepts in channel management, emphasis on structural, operational, and
leadership decisions  PREQ 301

407 International Marketing (3)
Problems, opportunities, and strategies in an international marketing environment,
trade concepts and theories, cultural, political, legal, and financial constraints  PREQ
301

409 Industrial Marketing (3)
Market, product design, pricing strategy, logistics, promotion, government and institutional
markets in the context of the political, economic, technological, and ethical
environments  PREQ 301

475 Marketing Strategy and Management (3)
A capstone course for marketing majors only  Integrates the collection of individual
marketing concerns into a managerial decision-making framework  PREQ 301 and 6
hours of required marketing courses

483 Internship in Marketing (3, 3, 3)
484 Supervised experience 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 Marketing (1-3, R6)
PREQ Permission of department head

Graduate Courses
601 Marketing Management (3)  602 Marketing Research (3)  603 Consumer Behavior (3)
604 Marketing Communications (3)  682 Research Project in Marketing (3, R6)
693 Topics in Marketing (3, R6)

Mathematics (MATH)

100 Elementary Algebra (3)
Basic algebraic skills  simplifying algebraic expressions, solving linear and quadratic
equations, exponents, and radicals  Not open to students with credit for courses
numbered 130 and above  Credit earned in this course will not count toward 128 hours
required for graduation

101 Mathematical Concepts (3)
Great ideas in mathematics, numbers and number patterns, logic and reasoning,
induction, deduction, topics from algebraic and geometric structures, probability,
statistics, calculus, and graph theory  (F2)

130 College Algebra (3)
Real number properties, solving equations, inequalities, systems of equations, func-
tions, and graphs  PREQ 100 or placement  COREQ CS 150
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 placement

146 Algebra and Analytical Geometry (3)
Functions and graphs, polynomial, logarithmic, and exponential functions, mathematical induction, sequences and series, conic sections  PREQ 130 or placement

153 Calculus I (4)
Limits, continuity, derivatives, and integrals of algebraic and trigonometric functions with applications  PREQ 145 and 146, or placement  COREQ MET 351

170 Applied Statistics (3)
Descriptive statistics, exploratory data analysis, probability distributions, correlation, regression, estimation, and hypothesis testing  PREQ 100

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

250 Introduction to Logic and Proof (2)
An introduction to the principles of logic and the methods of proof necessary for the successful study of mathematics

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  COREQ EET 341

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  PREQ 250 and 153

270 Statistical Methods I (3)
Descriptive statistics, probability and sampling distributions, estimation, hypothesis testing  PREQ 170 or 146
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>286</td>
<td>Laboratory Practicum I, II (1, 1)</td>
<td>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</td>
</tr>
<tr>
<td>287</td>
<td>Problem Solving (2)</td>
<td>Methods and techniques for problem solving in mathematics. 1 Lecture, 2 Lab</td>
</tr>
<tr>
<td>310</td>
<td>(CS 310) Discrete Structures (3)</td>
<td>Enumeration topics including arrangements, selections, generating functions, and recurrence relations, basic concepts of graphs and trees. PREQ Junior standing or permission of instructor</td>
</tr>
<tr>
<td>315</td>
<td>Methods and Materials for Teaching Mathematics in the Secondary School (3)</td>
<td>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</td>
</tr>
<tr>
<td>320</td>
<td>Ordinary Differential Equations (3)</td>
<td>Differential equations of first order, first degree with applications, linear equations of higher order and numerical methods, special equations of second order. PREQ 256</td>
</tr>
<tr>
<td>331</td>
<td>Complex Variable Theory (3)</td>
<td>The complex number system, limits, continuity, derivatives, transcendental and multiple-valued functions, integration. PREQ 256</td>
</tr>
<tr>
<td>350</td>
<td>Operations Research (3)</td>
<td>Convexity, linear programming, simplex algorithm, duality, transportation problems, and integer programming. PREQ 254 or 262, 255</td>
</tr>
<tr>
<td>351</td>
<td>Introduction to Abstract Algebra (3)</td>
<td>Groups, rings, and fields. PREQ 250</td>
</tr>
<tr>
<td>370</td>
<td>Statistical Theory I (3)</td>
<td>Elementary probability, discrete and continuous random variables, expectation, moments, sampling distributions, probability distributions. PREQ 256</td>
</tr>
<tr>
<td>375</td>
<td>Statistical Methods II (3)</td>
<td>Analysis of variance, regression, and correlation, analysis of categorical data, distribution-free procedures. PREQ 270</td>
</tr>
<tr>
<td>386</td>
<td>Practicum (2)</td>
<td>Practical experience under faculty supervision for prospective teachers as teaching aides and as tutors. PREQ MATH 255, permission of department head 5 Lab</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Mathematics (1 or 3, R15)</td>
<td>See Cooperative Education Program</td>
</tr>
<tr>
<td>393</td>
<td>Topics in Mathematics (1-6, R6)</td>
<td>PREQ Permission of department head</td>
</tr>
<tr>
<td>411</td>
<td>Foundations in Geometry (3)</td>
<td>Axiomatic approach to the study and development of Euclidean and non-Euclidean geometry. PREQ Junior standing or permission of department head</td>
</tr>
<tr>
<td>412</td>
<td>Modern Geometries (3)</td>
<td>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</td>
</tr>
<tr>
<td>422</td>
<td>Advanced Calculus I (3)</td>
<td>Sequences of real numbers, continuous functions, and differentiation. PREQ 250 and 256</td>
</tr>
</tbody>
</table>
423 Advanced Calculus II (3)
Differentiation including L'Hospital's rule and Taylor's theorem, integration theory, other classical topics  PREQ 422

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

479 Capstone: Seminar (2)
A course requiring written papers and oral presentatations by students on historical and contemporary ideas from the current mathematical literature  PREQ Senior standing

### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<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>
<td></td>
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<tr>
<td>509</td>
<td>Mathematics for Secondary Teachers (3)</td>
<td></td>
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<tr>
<td>512</td>
<td>Modern Geometry (3)</td>
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<tr>
<td>523</td>
<td>Advanced Calculus II (3)</td>
<td></td>
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<tr>
<td>541</td>
<td>Introduction to Numerical Analysis (3)</td>
<td></td>
</tr>
<tr>
<td>561</td>
<td>Abstract Algebra (3)</td>
<td></td>
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<tr>
<td>562</td>
<td>Linear Algebra (3)</td>
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<tr>
<td>570</td>
<td>Statistical Theory II (3)</td>
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<tr>
<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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<tr>
<td>602</td>
<td>Modern Mathematics for Teachers II (3)</td>
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<tr>
<td>603</td>
<td>Modern Mathematics for Teachers III (3)</td>
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<tr>
<td>610</td>
<td>Computers in Education (3)</td>
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<tr>
<td>620</td>
<td>Algebra (3)</td>
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<tr>
<td>622</td>
<td>Analysis I (3)</td>
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<tr>
<td>623</td>
<td>Analysis II (3)</td>
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<tr>
<td>624</td>
<td>Complex Analysis (3)</td>
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<td>630</td>
<td>Mathematical Modeling (3)</td>
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<tr>
<td>632</td>
<td>Methods of Applied Mathematics (3)</td>
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<tr>
<td>634</td>
<td>Partial Differential Equations and Boundary Value Problems (3)</td>
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<tr>
<td>640</td>
<td>Numerical Analysis (3)</td>
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<tr>
<td>646</td>
<td>Numerical Linear Algebra (3)</td>
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<tr>
<td>661</td>
<td>Applied Algebra (3)</td>
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<tr>
<td>670</td>
<td>Advanced Statistical Theory (3)</td>
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<tr>
<td>672</td>
<td>Advanced Statistical Methods (3)</td>
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<tr>
<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>
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</tr>
<tr>
<td>699</td>
<td>Thesis (3, R6)</td>
<td></td>
</tr>
</tbody>
</table>

### 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)
Plan and execute tactical mission, land navigation, weapons, adventure, leadership, and physical training, 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 and 332 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)

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

152 Aural Skills Laboratory I, II (1, 1)
Aural perception of rhythmic, melodic, and harmonic devices. PREQ Permission of department head. 2 meetings.

177 Basic Music Theory Laboratory (2)
An introduction to music reading, interval and chord identification, key signatures, and melodic structures. PREQ Placement examination or permission of department head. 4 Lab
178 Beginning Theoretical and Analytical Skills (4)
Music theory skills up to and including secondary dominants and leading tone chords
PREQ 177 or placement examination

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)
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

303 The World of Music (3)
Musical traditions of various world cultures in their social contexts
PREQ Gen Ed P3b and junior-level status (P4)

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, Admission to the teacher education program

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)
Western music from Middle Ages through the Baroque in 350, from the Classical Period through the 20th century in 351
PREQ 278 or permission of department head and instructor

378 Survey of the Music Industry (3)
The retail and wholesale music trade publishing, royalties, copyright, performance rights, record production, advertising and promotion, labor relations, contracts, artist management

389 Cooperative Education in Music (1 or 3, R15)
See Cooperative Education Program
403 Marching Band Techniques (2)  
PREQ 326

405 Senior Recital (1)  
Public performance  May be scheduled after hearing committee approval  PREQ 305

421 Wind Literature (3)  
Literature of wind instruments, emphasis on authentic performance practices  PREQ 278

422 Vocal Literature (3)  
Solo vocal literature since the 16th century  PREQ 278

423 Choral Literature (3)  
Literature from the Renaissance to the present, emphasis on style and authentic performance practices  PREQ 278

424 Keyboard Literature (3)  
Keyboard literature from the Baroque to the present  PREQ 278

425 Studies in Contemporary Music (3)  
Styles and issues of 20th-century music  PREQ 351

428 Choral Conducting (3)  
Study and application of gesture communication and analysis selected to choral conducting  PREQ 252, 278

429 Instrumental Conducting (3)  
Application of techniques and analysis to instrumental conducting  PREQ 252, 278

470 Orchestration and Arranging (2)  
Scoring and arranging for instrumental and vocal ensembles  PREQ 278

477 Contrapuntal Techniques (3)  
Survey of contrapuntal practice from 1500 to the present, focusing on the 16th-, 18th-, and 20th-century techniques  PREQ 278

489 Internship (3, 6, 9, R9)  
Faculty-supervised training in an approved agency  Minimum of 9 hours per week or 135 hours for each 3 credits, arranged with the agency and the music department  PREQ 378, BA 133, CIS 251, permission of department head

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

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>503</td>
<td>Marching Band Techniques (2)</td>
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<tr>
<td>504</td>
<td>Topics in Music (1-3, R9)</td>
<td></td>
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<tr>
<td>521</td>
<td>Wind Literature (3)</td>
<td></td>
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<tr>
<td>522</td>
<td>Vocal Literature (3)</td>
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<tr>
<td>523</td>
<td>Choral Literature (3)</td>
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<tr>
<td>524</td>
<td>Keyboard Literature (3)</td>
<td></td>
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<tr>
<td>525</td>
<td>Studies in Contemporary Music (3)</td>
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<tr>
<td>528</td>
<td>Choral Conducting (3)</td>
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<tr>
<td>529</td>
<td>Instrumental Conducting (3)</td>
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<tr>
<td>577</td>
<td>Instrumental Conducting (3)</td>
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<td>592</td>
<td>Orff-Schulwerk Level I (3)</td>
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<tr>
<td>593</td>
<td>Topics in Music (1-3, R12)</td>
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<tr>
<td>620</td>
<td>Music History Seminar (3)</td>
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<td>625</td>
<td>Studies in Music Literature (3, R6)</td>
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<td>625</td>
<td>Studies in Music Literature (3, R6)</td>
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<td>Studies in Music Literature (3, R6)</td>
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<td>630</td>
<td>Music Theory Seminar (3)</td>
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<tr>
<td>640</td>
<td>Studies in Pedagogy (3, R9)</td>
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<tr>
<td>678</td>
<td>Applied Composition (2, R8)</td>
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<tr>
<td>679</td>
<td>Lecture/Recital (3 R6)</td>
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<tr>
<td>680</td>
<td>Independent Study (1, R6)</td>
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<tr>
<td>681</td>
<td>Readings in Music History (3, R9)</td>
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<tr>
<td>682</td>
<td>Research Project in Music Education (3)</td>
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<tr>
<td>693</td>
<td>Orff-Schulwerk Level II (3)</td>
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<td>694</td>
<td>Orff-Schulwerk Level III (3)</td>
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<td>695</td>
<td>Music Education Seminar (3)</td>
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<tr>
<td>696</td>
<td>Seminar in Choral Techniques and Materials (2)</td>
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<td>697</td>
<td>Seminar in Instrumental Techniques and Materials (3)</td>
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<tr>
<td>698</td>
<td>Seminar for the General Music Class (3)</td>
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<tr>
<td>699</td>
<td>Thesis (3, R6)</td>
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</tr>
</tbody>
</table>

**Performance Courses**

Credit is earned on the basis of one hour for each half hour of individual instruction per week. The courses are listed in prerequisite order. The two-hour courses are open only to music majors in the principal performance area. All other students take the one-hour courses. Permission of the department head is required. Passing a qualifying examination is prerequisite for 2/332, 2/336, 2/342, 2/346, 2/356, 2/362, and 2/366.

**Brass**

- 130, 131, 230, 231, 330, 331, 430, 431 (1 each)
- 132, 133, 232, 233, 332, 333, 432, 433 (2 each)
<table>
<thead>
<tr>
<th>Instrument</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percussion</td>
<td>134, 135, 234, 235, 334, 335, 434, 435 (1 each) 136, 137, 236, 237, 336, 337, 436, 437 (2 each)</td>
</tr>
<tr>
<td>Piano</td>
<td>140, 141, 240, 241, 340, 341, 440, 441 (1 each) 142, 143, 242, 243, 342, 343, 442, 443 (2 each)</td>
</tr>
<tr>
<td>Organ</td>
<td>144, 145, 244, 245, 344, 345, 444, 445 (1 each) 146, 147, 246, 247, 346, 347, 446, 447 (2 each)</td>
</tr>
<tr>
<td>Harpsichord</td>
<td>150, 151, 250, 251 (1 each)</td>
</tr>
<tr>
<td>Voice</td>
<td>154, 155, 254, 255, 354, 355, 454, 455 (1 each) 156, 157, 256, 257, 356, 357, 456, 457 (2 each)</td>
</tr>
<tr>
<td>Woodwind</td>
<td>160, 161, 260, 261, 360, 361, 460, 461 (1 each) 162, 163, 262, 263, 362, 363, 462, 463 (2 each)</td>
</tr>
<tr>
<td>String</td>
<td>164, 165, 264, 265, 364, 365, 464, 465 (1 each) 166, 167, 266, 267, 366, 367, 466, 467 (2 each)</td>
</tr>
<tr>
<td>Music Synthesis</td>
<td>188, 189, 288, 289, 388, 391, 458, 459 (2 each)</td>
</tr>
<tr>
<td>Piano Class I, II</td>
<td>148, 149 (1, 1)</td>
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<tr>
<td>Voice Class I, II</td>
<td>158, 159 (1, 1)</td>
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<tr>
<td>String Class I</td>
<td>168 (1)</td>
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<tr>
<td>Classroom Guitar Technique</td>
<td>169 (1)</td>
</tr>
<tr>
<td>Preparatory Applied Music</td>
<td>170 (2, R4)</td>
</tr>
<tr>
<td>Chorus</td>
<td>171 (1, R8)</td>
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<tr>
<td>Concert Choir</td>
<td>172 (1, R8)</td>
</tr>
<tr>
<td>Band</td>
<td>173 (1, R8)</td>
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<tr>
<td>Orchestra</td>
<td>174 (1, R8)</td>
</tr>
<tr>
<td>Ensemble</td>
<td>175 (1, R12)</td>
</tr>
<tr>
<td>Functional Jazz Keyboard</td>
<td>184 (1, R2)</td>
</tr>
</tbody>
</table>
248 Piano Class III, IV (1, 1)
249 Continuation of 148 and 149 2 meetings

258 Diction for Singers I (1)
Fundamentals of the International Phonetic Alphabet and the principles utilized in a singing pronunciation of English and Italian

259 Diction for Singers II (2)
Continuation of the International Phonetic Alphabet and the principles utilized in a singing pronunciation of German and French  PREQ 258 or permission of instructor

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

279 Wind and Percussion Class I (1)
Class for voice and keyboard music majors, music minors, and music focus area students 2 Lab

283 MIDI/Synthesis Class (1)
Topics, equipment, and pedagogy of MIDI/Synthesis  PREQ 152 and 177 or permission of instructor 2 meetings

284 Synthesizer Masterclass (1, R8)
Group lessons in MIDI/Synthesis for secondary students  PREQ 181 and 182 or permission of instructor

348 Piano Class V, VI (1, 1)
349 Continuation of 248 and 249 2 meetings

370 Ensemble (1, R12)
Performance in vocal and instrumental ensembles  PREQ 175 or permission of department head

371 University Chorus (1, R8)
Study and performance of representative choral works, open to any student meeting eligibility requirements 3 meetings  PREQ 171 or permission of department head

372 Concert Choir (1, R8)
Audition required, public performances 4 meetings  PREQ 172 or permission of department head

373 Band (1, R8)
Performance in a wide variety of music in the marching, symphonic, and concert bands, open to any student meeting eligibility requirements 4 meetings  PREQ 173 or permission of department head
374 Orchestra (1, R8)
Experience for advanced strings, wind, and percussion players, formal concerts and performances  PREQ 174 or permission of department head

448 Piano Class VII, VIII (1, 1)
449 Continuation of 348 and 349, must be elected in sequence until piano proficiency is satisfied, credit not applicable toward major requirements  2 meetings

Graduate Courses

594 Topics in Music (1-3, R9)  
611 Applied Music (1, R4)  
612 Applied Music (2, R8)
613 Applied Music (3, R9)  
675 Ensemble (1, R6)  
696 Seminar in Choral Techniques and Materials (3)

Natural Resources Management (NRM)

340 Natural Resource Measurements (4)
Basic land, climatic, hydrologic, and vegetative measurements used in resource management  3 Lecture, 2 Lab

342 Microcomputer Applications in NRM (1)
Applications of spreadsheets, database management, and specialized computer software to problems in natural resources management  1 Lab

344 Introduction to Geographic Information Systems (3)
Introduction to and applications of geographic information systems in natural resources management  2 Lecture, 2 Lab  PREQ CS 101, NRM 342 or permission of instructor

350 Foundations of Silviculture (4)
Principles of silviculture and their applications to the major forest types of the United States  Site and management requirements of important tree species  PREQ 340 or permission of instructor  3 Lecture, 2 Lab

352 Forest Resource Measurements (3)
Principles of applications in measuring forest resources  Measurements of trees and stands for volume, quality, growth, land areas, and other forest resources  PREQ 340 or permission of instructor  2 Lecture, 2 Lab

389 Cooperative Education in NRM (1 or 3, R15)
See Cooperative Education Program

440 Integrated Resources Management (4)
Natural resources management exercises, project and strategic planning, map and quantitative integration techniques, group dynamics  PREQ 340, 442, 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  PREQ NRM major, junior standing, or permission of instructor

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  PREQ 340 or permission of instructor

470 Land Suitability Classification (3)
Study and application of land suitability classifications systems  PREQ 340, 344, GEOG 305, or permission of instructor  2 Lecture, 2 Lab
Independent Study (1-3, R6)
PREQ NRM major and permission of program coordinator

Topics in NRM (1-3, R6)
PREQ Permission of program coordinator

Nursing (NSG)

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

Professional Transitions in Nursing (3)
The development of the profession and of professional nurse roles and the processes through which they are conducted
PREQ Admission to the nursing sequence

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

Basic Nursing Skills (3)
Psychomotor nursing skills essential to the care and comfort of patients, scientific principles underlying nursing procedures
PREQ Admission to the nursing sequence
2 Lecture, 3 Lab

Dimensions of Professional Nursing (2)
The development of the profession and of professional nurse roles
PREQ Permission of instructor
1 Lecture, 1 Seminar

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

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

Health Care of Women (2)
Review of women's health care, the functions of women's bodies, and personal responsibility for health

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

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

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

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 Cooperative Education Program

393 Topics in Nursing (1-3, R12)
PREQ Permission of instructor

399 Seminar: Professional Nursing Knowledge and Skills (2)
Registered nurse students demonstrate or provide documentary evidence of satisfactory level of competence in basic professional nursing knowledge and skills  
S/U grading  
PREQ Permission of instructor

405 Gerontological Nursing (1-3)
The aging process, health assessment and promotion in the aged, identification of frequent alternations in health and appropriate nursing interventions  
To be taught off campus only  
PREQ Permission of instructor

460 Nursing Leadership and Management (2)
Leadership theory in the management of clients, peers, and other health-care providers in nursing service settings  
PREQ 385 or permission of instructor  
1 Lecture, 1 Seminar

466 Nursing Science III (5)
Application of the nursing process for complex client models, including the childbearing family, the hospitalized child and family, and the mentally ill client  
PREQ 385  
COREQ 486

467 Nursing Science IV (5)
Planning nursing care in hypothetical situations for the ill adult with complex health-care problems  
PREQ 385  
COREQ 487

470 Nursing Research (3)
Research design in the study of nursing problems, interpretation of research emphasized  
PREQ Permission of instructor

475 Perspectives of the Nursing Profession (2)
The impact and implications of current and evolving trends on the future practice of nursing  
PREQ Permission of instructor  
1 Lecture, 1 Seminar

480 Independent Study (1-2, R6)
PREQ Permission of instructor

481 Overview of Nursing (3)
A review of concepts, principles, and nursing actions pertaining to clients across the life span with a variety of healthcare needs  
The processes of nursing, communication, and teaching-learning will be emphasized  
PREQ 466 or 467 or permission of instructor  
S/U Grading

483 Practicum in Clinical Management (3)
Application of management principles in the care of clients with complex health problems  
COREQ 460 or permission of instructor  
9 Lab

486 Clinical Practicum III (4)
Application of nursing strategies to the care of the child-bearing family, the hospitalized child and family, and the mentally ill client  
PREQ 385  
COREQ 466  
12 Lab
487 Clinical Practicum IV (4)
Application of wellness-illness concepts, nursing and other processes, and nursing
skills with individuals and multiproblem families in complex healthcare agencies,
experience in the managerial role of the nurse  PREQ 385  COREQ 467  12 Lab

Nutrition and Dietetics (ND)

231 Food Science (4)
Scientific principles of food preparation, effect of preparation practices on food quality
and nutrient retention, storage and preservation principles  3 Lecture, 3 Lab

300 Food Facts and Fads (3)
Effects of food processing and preservation, safety of the food supply, food choices and
health

330 Human Nutritional Needs (3)
Principles of nutrition, needs throughout the life cycle, selection of well-balanced diets
for health and well-being

334 Nutritional Applications (3)
Application of nutritional principles to diet planning, nutrient analysis including
computer-aided analysis, and nutritional assessment  PREQ 330 or permission of
instructor  1 Lecture, 4 Lab

336 Normal Nutrition (2)
Principles of human nutrition, emphasizing nutrients and factors affecting utilization in
the human body  PREQ BIOL 292, CHEM 133

337 Therapeutic Nutrition (2)
Physiological and biochemical abnormalities in disease, principles of nutritional
therapy  PREQ BIOL 292, CHEM 133

389 Cooperative Education in Nutrition (1 or 3, R15)
See Cooperative Education Program

431 Food Preservation (3)
Principles and procedures for food preservation, home methods, principles of home
food sanitation and spoilage, food storage techniques  PREQ 231 or permission of
instructor  2 Lecture, 2 Lab

433 Research Methods in Nutrition (3)
Standard procedures for nutrient analysis, including proximate analysis of foods,
introductory experimental design and methodology  PREQ 231, MATH 170 or PSY
251  COREQ 436  2 Lecture, 4 Lab

434 Experimental Methods of Foods (3)
Advanced food science principles and techniques of sensory and objective evaluation
of foods  PREQ 231, CHEM 133  2 Lecture, 4 Lab

436 Advanced Human Nutrition (4)
Normal nutrition related to biochemical and physiological functioning, interrela-
tionships of nutrients and their effect on body needs  PREQ 334, BIOL 292, CHEM 133
COREQ 433

437 Diet Therapy (4)
Mechanisms by which food contributes to maintenance of health, prevention of disease,
and correction of nutritional disorders  PREQ 436  COREQ 439

439 Introduction to Professional Practice (3)
Introduction to professional ethics, conduct in patient care, utilization of laboratory
values, nutritional assessment, and dietary management  COREQ 437  2 Lecture, 3
Clinical
480 Independent Study in Nutrition (1-3, R6)
PREQ Permission of instructor

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student's career field
485 S/U grading PREQ Permission of instructor 9 hours per week per course

Graduate Courses
531 Food Preservation (3)
533 Research Methods in Nutrition (3)
534 Experimental Methods of Foods (3)
536 Advanced Human Nutrition (4)
537 Diet Therapy (4)
538 Clinical Experience in Dietetics (1)
539 Introduction to Professional Practice (3)
630 Nutrition Throughout the Life Cycle (3)

635 Nutrition Education (3)
636 Protein, Carbohydrates, and Lipids (3)
637 Advanced Diet Therapy (3)
638 Community Nutrition (3)
639 Vitamins and Minerals (3)
640 Practicum in Clinical Dietetics (3, R6)
642 Practicum in Administrative Dietetics (3, R6)
643 Practicum in Community Dietetics (3)
649 Topics in Nutrition and Food Science (1-3, R9)

Office Administration and Business Education (OA)

293 Topics in Office Administration (1-3, R6)

300 Word Processing (3)
Word processing skill development and application using electronic typewriters and microcomputers PREQ Keyboarding skill

304 Business Communications (3)
Application of written, oral, and interpersonal communication theory in business PREQ ENGL 102

310 Methods and Materials for Business Education (2)

340 Information Processing Systems (3)
Information processing and interpretation, use of the information processor, computer, and microcomputer, systems design, organizational implications PREQ 300 or equivalent 2 Lecture, 2 Lab

389 Cooperative Education in Office Administration (1 or 3, R15)
See Cooperative Education Program

393 Topics in Office Administration (1-3, R6)

401 Office Systems and Simulations (3)
Organization, supervision, and related office administration responsibilities, office simulations PREQ 300

402 Administrative Management and Policy (3)
Systems analysis, leadership and human relations, and control of office operations

403 Business Research and Reports (3)
Identification of research problems, collecting and analyzing data, presenting findings for decision making

415 Administration of Business Education Programs (3)
Administration, supervision, and coordination of business and office education programs

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)
602 (IET & HE 602) Vocational Education History and Philosophy (3)
683 Internship in Vocational Business Education (3)
684 Internship in a Business Firm (1-3)
693 Topics in Business and Office Education (1-3, R9)
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)
Concepts, philosophical orientations, and aspects of recreation, play, and leisure. The organization of leisure and recreation as a service and profession. PREQ 150 or permission of instructor

254 Introduction to Outdoor Pursuits Education (3)
Instructional techniques for outdoor pursuits. Backcountry characteristics are reviewed in terms of hazards, use ethics, and safety. 2 Lecture, 2 Lab

270 Leadership and Group Dynamics in Recreation (3)
Emphasis will be on appropriate theories and techniques for specific clientele and the different populations that are encountered as a recreation professional

313 Camp Counseling (3)
This course is designed to prepare students for positions as camp counselors and provides the foundations for further preparation toward camp administration

314 Organization and Administration of Camping Agencies (3)
The nature of camping, trends, elements of camp design and management

321 Outdoor Education and Interpretation (3)
Theory and principles of outdoor education as an interdisciplinary approach to learning in a recreational or educational setting

330 (SM 330) Aquatic Recreation Management (3)
Organization, programming, facility design, and maintenance in various aquatic recreational environments. Course may lead to Certified Pool Operator certification

361 Program Planning and Evaluation in Parks and Recreation Management (3)
Designed to equip students with a variety of program planning methodologies including proposal and grant writing. Evaluative research methods are also included. PREQ SOC 231 and SOC 385 or permission of instructor. 2 Lecture, 2 Lab

370 Internship Orientation (1)
Orientation to the internship, preparation of personnel records, applications, resumes, and agency contracts. Preparation for entry into the profession. Interview and application techniques. PREQ SOC 385, and SOC 231, or permission of instructor. 2 Lab

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 Cooperative Education Program

420 Administration and Leadership of Outdoor Pursuits (3)
Implementation of outdoor pursuits programs. Includes planning and leadership components, outdoor adventure-based administrative techniques, and risk management. PREQ 254 or permission of instructor. 2 Lecture, 2 Lab
425 Land-based Outdoor Pursuits Education (3)
Land-based outdoor instruction in mountain activities, caving, and rescue techniques
Includes institutional teaching techniques used by different agencies and adaptations for people with disabilities
PREQ 254 or permission of instructor 2 Lecture, 2 Lab

426 Water-based Outdoor Pursuits Education (3)
Water-based outdoor instruction in canoeing, kayaking, rafting, and rescue techniques
Includes institutional teaching techniques used by different agencies and adaptations for people with disabilities
PREQ '254' or permission of instructor

430 Entrepreneurship and Commercial Recreation (3)
Analysis of types of commercial and private recreation enterprises, probable trends and directions, requirements for and procedures for planning and organizing commercial recreation services

433 Outdoor Recreation (3)
An overview of the professional aspects of outdoor recreation, including classification systems, policies of management agencies, and the perspectives of individuals, non-profit and commercial groups

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

440 Travel and Tourism (3)
The travel and tourism industry, national and international, locational characteristics, terminology, demographics, economic impact and trends, attitudes and skills required
PREQ Permission of instructor 2 Lecture, 2 Lab

461 Management and Administration of PRM Services (3)
Management, organization, and supervision in recreation and leisure service administration Includes entrepreneur/parentrpreneurship, planning processes, marketing, fiscal strategies, human services, evaluation, and research
PREQ 250 or permission of instructor

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

483 Internship in Parks and Recreation Management (3, 3, 3)
484 Placement in a cooperating agency to relate classroom learning to practice S/U grading
485 PREQ 370, 2.0 GPA, permission of program coordinator 9 hours per week per course

486 Field Experience (1-12)
Field experience in cooperation with existing programs such as North Carolina Outward Bound School and Nantahala Outdoor Center
PREQ Permission of instructor 1-12 Lab

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

495 Senior 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

Graduate Courses
580 Independent Study (1-3, R6)
583 Internship in Parks and Recreation Management (1-3, R6)
593 Topics in Parks and Recreation Management (1-3, R6)
Philosophy (PHIL)

101 Western Philosophical Traditions (3)
Examination of ways in which philosophers have interpreted reality, knowledge, and the nature of values (P3a)

201 (300) Logic and Its Uses (3)
Principles and problems of reasoning, analysis and evaluation of arguments on philosophical, social, and scientific issues (F3)

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

330 American Philosophy (3)
Study of major philosophers in America James, Dewey, Peirce, Mead, Whitehead, Santayana, and Lewis

340 Epistemology (3)
Primary problems in the theory of knowledge in Western philosophy PREQ 3 hours in philosophy excluding 101 and 201, or permission of instructor

341 Metaphysics (3)
Central metaphysical issues in Western philosophy PREQ 3 hours in philosophy excluding 101 and 201, or permission of instructor
393 Topics in Philosophy (1-3, R6)
PREQ Permission of instructor

493 Seminar in Philosophy (3, R9)
PREQ 6 hours in philosophy, excluding 101 and 201, or permission of instructor

Graduate Courses
593 Topics in Philosophy (1-3, R6)

Physical Education (PE)

102 Basic Water Safety Skills (1)
Basic water skills, Level III Stroke Readiness, American Red Cross swimming outline
2 meetings (F5)

103 Intermediate/Advanced Swimming and Aquatic Sports (1)
Swimming strokes and diving, American Red Cross Level VII Advanced Skills, water
polo, basketball and volleyball skills rules and strategy PREQ 102 or equivalent 2
meetings (F5)

104 Lifesaving (1)
American Red Cross outline, applicable toward lifesaving certification PREQ 103 or
equivalent 2 meetings (F5)

105 Water Safety Instructor-Lifeguarding Instructor (1)
American Red Cross training for water safety instructor and lifeguarding instructor
certificates PREQ Red Cross Level VII Advanced Swimming Skills 3 meetings (F5)

106 Scuba Diving (1)
Snorkel and scuba PREQ 103 or equivalent 2 meetings (F5)

107 Synchronized Swimming (1)
Creative patterns and movement with music PREQ 103 or equivalent 2 meetings
(F5)

108 Canoeing (1)
PREQ 103 or equivalent One 2-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)

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)

130 **Lifeguard Training** (1)  
American Red Cross outline for lifeguarding certificate  
PREQ PE 103 or equivalent  
3 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 2 meetings (F5)

204 **Snow Skiing** (1)  
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 **Social, Line, and Folk Dance** (1)  
Skills, control, poise required in social, line, and folk 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)

225 **Volleyball and Softball** (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

213 (SM 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 (SM 313) Psychological Aspects of Sport (3)
The psychological aspects of sport and coaching methods PREQ Junior standing, SM 260 for SM majors

316 Administration of Recreational Agencies (2)
Organizational theory, facility, program, and personnel management in private and commercial recreational agencies PREQ Permission of instructor

325 Physical Education Curriculum and Methods (3)
Class management, teaching methods, and program content for grades K-12 PREQ Majors must be admitted to the professional education sequence Minors by permission of instructor

335 Anatomy and Physiology (4)
The study of the structure and function of the human body PREQ BIOL 134 3 Lecture, 1 Lab

345 Elementary Physical Education (3)
Developmental approach to physical education for the elementary school program 2 Lecture, 2 Lab
353 Methods and Teaching Analysis of Team and Individual Sports (3)
Methods, materials, and skills used in teaching sports: soccer, tennis, volleyball, and tumbling 2 Lecture, 2 Lab

360 Skills in Promoting Healthful Living (3)
A competency-based course of methods and materials in health, first-aid/safety, and physical education for the elementary school program 2 Lecture, 1 Lab

380 Independent Study (1-3)
A topic in health, physical education, or recreation agreed upon by student and instructor  PREQ ENGL 102, permission of department head

383 Instructional Apprenticeship (1, R3)
Apprenticeship to develop teaching and leadership skills before student teaching  PREQ Physical education major, permission of instructor 3 hours per credit hour

389 Cooperative Education in PE and Sports (1 or 3, R15)
See Cooperative Education Program

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  PREQ Junior-level standing, 2 Lecture, 2 Lab

411 Coaching Basketball, Track, and Field (3)
Methods, materials, skills, and strategies for women's and men's basketball and track and field  PREQ Junior-level standing, 2 Lecture, 2 Lab

418 Coaching Softball, Volleyball, and Gymnastics (3)
Methods, materials, skills, and strategies of coaching softball, volleyball, and gymnastics  PREQ Junior-level standing, 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
600 The Elementary Physical Education Curriculum (3)
615 Legal Issues for the Physical Educator, Coach, and Sport Administrator (3)
621 Research in Health, Physical Education, Recreation, and Dance (3)
625 Motor Learning (3)
630 Principles of Physical Education (3)
635 Lifespan Motor Development (3)
640 Administration of Physical Education (3)
650 Applied Physiology (3)
665 Exercise Testing and Prescription (3)
675 Issues in Intramurals and Athletics (3)
676 Research Techniques in Exercise Physiology (3)
694 Special Problems (1-3)
699 Seminar and Practicum in Physical Education (3)
699 Thesis (3, R6)
Physical Therapy (PT)

Graduate Courses
601 Professional Issues I (2)  632 Human Physiology II (3)
602 Professional Issues II (2)  641 Scientific Inquiry I (1)
603 Professional Issues III (1)  642 Scientific Inquiry II (1)
604 Professional Issues IV (2)  643 Scientific Inquiry III (2)
605 Professional Issues V (2)  644 Scientific Inquiry IV (2)
611 Physical Therapy Science I (3)  651 Clinical Logic I (3)
612 Physical Therapy Science II (2)  652 Clinical Logic II (3)
613 Physical Therapy Science III (4)  653 Clinical Logic III (3)
614 Physical Therapy Science IV (3)  660 Neuroscience (4)
621 Human Anatomy I (3)  683 Experiential Professional Activities
622 Human Anatomy II (3)  684 I and II (2, 2)
623 Functional Human Anatomy I (4)  693 Topics in Physical Therapy (1)
624 Functional Human Anatomy II (4)  783 Experiential Professional Activities
631 Human Physiology I (3)  784 III and IV (5, 5)
632 Human Physiology II (3)  641 Scientific Inquiry I (1)
642 Scientific Inquiry II (1)
643 Scientific Inquiry III (2)
644 Scientific Inquiry IV (2)
651 Clinical Logic I (3)
652 Clinical Logic II (3)
653 Clinical Logic III (3)
660 Neuroscience (4)
683 Experiential Professional Activities
684 I and II (2, 2)
693 Topics in Physical Therapy (1)
783 Experiential Professional Activities
784 III and IV (5, 5)

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)

130 Introductory Physics (4, 4)
131 Noncalculus-based treatment of motion, force, energy, heat, electricity, magnetism, light, and modern physics  PREQ MATH 130, 130 for 131  3 Lecture, 2 Lab

230 General Physics (4, 4)
231 Calculus-based study of mechanics, thermodynamics, electricity and magnetism, optics, and modern physics  PREQ MATH 153 for 230, 230 for 231  3 Lecture, 3 Lab

302 Electronics (4)
Circuit theory, discrete devices, amplifiers, operational amplifiers, integrated circuits, and digital techniques  PREQ 131 and a course in differential and integral calculus  3 Lecture, 3 Lab

310 Modern Physics (3)
Special relativity, quantum physics, the wave nature of matter, atomic and nuclear structure, and elementary particles  PREQ 131 or 231, MATH 140 or 153

320 Mathematical Methods of Physics (3)
Complex numbers and functions, series, Fourier series, cylindrical and spherical polar coordinate systems, ordinary and partial differential equations  PREQ 131 or 231, MATH 255

322 Optics (4)
Geometrical and physical optics, introduction to quantum optics  PREQ 131, MATH 255  3 Lecture, 3 Lab

325 Thermodynamics (3)
Classical theory of heat, first and second laws of thermodynamics, enthalpy, entropy, introductory kinetic theory and statistical thermodynamics  PREQ 131, MATH 256

350 Atomic Physics (4)
Quantum phenomena, potentials, introductory quantum mechanics, one electron and multiple electron atoms, molecules, introduction to solids  PREQ 310, MATH 256

360 Laboratory Physics (2)
Intermediate experiments in modern physics  PREQ 131 or 231
302 Electronics (4)
Circuit theory, discrete devices, amplifiers, operational amplifiers, integrated circuits, and digital techniques  
PREQ 131 and a course in differential and integral calculus  
3 Lecture, 3 Lab

310 Modern Physics (3)
Special relativity, quantum physics, the wave nature of matter, atomic and nuclear structure, and elementary particles  
PREQ 131 or 231, MATH 140 or 153

320 Mathematical Methods of Physics (3)
Complex numbers and functions, series, Fourier series, cylindrical and spherical polar coordinate systems, ordinary and partial differential equations  
PREQ 131 or 231, MATH 255

322 Optics (4)
Geometrical and physical optics, introduction to quantum optics  
PREQ 131, MATH 255  
3 Lecture, 3 Lab

325 Thermodynamics (3)
Classical theory of heat, first and second laws of thermodynamics, enthalpy, entropy, introductory kinetic theory and statistical thermodynamics  
PREQ 131, MATH 256

350 Atomic Physics (4)
Quantum phenomena, potentials, introductory quantum mechanics, one electron and multiple electron atoms, molecules, introduction to solids  
PREQ 310, MATH 256

360 Laboratory Physics (2)
Intermediate experiments in modern physics  
PREQ 131 or 231

380 Research in Physics (2, R8)
Physics research projects for individual students  
PREQ Permission of instructor

389 Cooperative Education in Physics (1 or 3, R15)
See Cooperative Education Program

410 Classical Mechanics (3)
Topics in analytical mechanics using vector operators and differential equations  
PREQ 320 or MATH 256

420 Nuclear Physics (3)
Nuclear decay, models, reactions, fission, fusion, lab techniques of instrumentation, gamma spectra, particle techniques  
PREQ 131 or 231 and a course in differential and integral calculus  
2 Lecture, 3 Lab

440 Electricity and Magnetism (3)
Topics in electricity and magnetism using vector operators and differential equations  
PREQ 410 and 320 or MATH 320

493 Topics in Physics (2-4)
PREQ 350 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 (PSC)

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 (ESC)

106 (300) American Politics and Issues (3)
Analysis of current political institutions and their development within the cultural setting, associated problems and interrelationships with other social institutions (P1b)

107 (301) Comparative Political Cultures (3)
Impact of cultural differences on the policies and political perspectives of various First-, Second-, and Third-World nations, comparison and contrast of contemporary examples (P4)

108 Global Issues in Politics (3)
Analysis of major international issues influencing the development of recent history (P5)

231 American Government and Politics (3)
The American political system, introduction to government institutions and how politics shapes policies

302 Problems and Policies of American Government (3)
Alternative public policies in selected areas social welfare, health care, resources, labor, agriculture, civil rights, business, taxation, defense, and education

303 State and Local Government (3)
Structure and functions of state and local government, processes of policy formation

304 Public Administration (3)
Administrative theory and practice, implementation of governmental policies, case studies of the administrative process in such areas as business regulation, health care, and law enforcement

305 Congress (3)
Congress as an institution, its role in the formulation of national policies, case studies dealing with legislation in the various areas of national policy

306 American Presidency (3)
The chief executive, his advisers, role playing, and decision making in the executive branch

307 Civil Service Administration (3)
Policies, methods, and techniques used in civil service systems, problems and procedures in the public sector (local, state, and national)

309 The Politics of Budgeting (3)
Budgetary aspects of national, state, and local government operations, budget formulation, execution and enactment, revenue resources, politics of process

310 Constitutional Law: Structure and Powers (3)
Analysis of judicial review, constitutional powers of the branches of government, federalism, sources of regulatory authority, and constitutional protection of political rights

315 European Political Systems (3)
Comparison of the political systems of selected nations
316 Politics of Developing Areas (3)
Comparative analysis of developmental processes pursued through political, military, economic, and administrative structures of Third-World nations, case studies

317 Politics of East Asia (3)
Selected political systems of East Asia, factors involved in political change and modernization

318 Soviet Political System (3)
The making of domestic and foreign policy by the Communist Party as a respondent to and a representative of the Russian political culture

319 Latin American Political Systems (3)
Institutions, groups, parties, and processes, problems of political development, modernization, and change

331 International Politics (3)
Components and characteristics of the international political system, conflict and cooperation in international relations, changing nature of international behavior

332 International Organization (3)
Global and regional organizations promoting settlement of disputes, collective security, economic development, human rights, self-government

333 International Law (3)
Rules and practices regulating such matters as state territory and jurisdiction, treaties, nationality and treatment of aliens, diplomatic and consular relations, warfare

334 United States Foreign Policy (3)
policies governing America's foreign relations, personnel and agencies responsible for policy implementation, role of the United States in world affairs since World War II

335 Problems in World Politics (3)
Contemporary issues in international politics, international problem-solving methods and applications

336 Mass Media and American Politics (3)
Examination and assessment of the power and influence of the mass media in American politics, emphasis on television

345 Ancient and Medieval Political Thought (3)
Political philosophers from Plato to Thomas Aquinas, their ideas examined and related to current issues

346 Modern Political Thought (3)
Political philosophers from Machiavelli to Mill, ideas providing the basis of modern political discussion and controversy examined

347 American Social and Political Eras (3)
American social and political ideas from the Federalist Papers to the present

348 Political Analysis (3)
Research methods and theoretical approaches for describing, explaining, and solving domestic and foreign policy problems. PREQ 231 or permission of instructor

351 Gender in Politics (3)
Gender roles examined in the context of national, state, and local government and politics

389 Cooperative Education in Political Science (1 or 3, R15)
See Cooperative Education Program
407 American Political Parties (3)
American political parties and their role in the government and politics of contemporary society, current national issues dividing the parties

421 Political and Organizational Leadership (3)
Concepts and processes of leadership related to political and public organizations
PREQ 6 hours in political science or permission of instructor

436 Dynamics of World Order (3)
Alternative approaches to meeting social and political needs in a changing global environment, conditions and practices of interdependence

480 Readings in Political Science (3)
PREQ Departmental permission

483 Internship in Political Science (3, 3, 3)
484 Work experience in a government 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

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

250 General Psychology (3)
Overview of psychology and the scientific study of behavior, topics in social, abnormal, and developmental physiological psychology, and personality, sensation, perception, and learning

251 Research Methods I: Statistics (3)
Statistical description and inference, central tendency and variability, correlational measures, parametric and nonparametric tests of significance
PREQ An algebra course

252 Research Methods II: Experimentation (3)
Naturalistic observation and correlational research, research designs and statistics, ethical issues, data collection and analysis, writing formal papers
PREQ 250 or permission of instructor, 251

260 Introduction to Gerontology (3)
Introduction to the field of gerontology

280 Research in Psychology I (1-3, R3)
Introductory-level supervised bibliographical or research activity
S/U grading
PREQ Permission of instructor
310 Social Psychology (3)
Social influences on individual behavior, feelings, and thoughts, social-psychological approaches to problems of attitudes, conformity, leadership, and other group phenomena. PREQ 250 or permission of instructor

313 Organizational and Industrial Psychology (3)
Structure, methods, techniques, and application of psychological concepts to human problems of work in organizations. PREQ 250 or permission of instructor

320 Child and Adolescent Development (3)
Theories and principles of development from conception through adolescence. PREQ EDCI 231 and admission to professional education sequence or permission of the psychology department head, field experience required

321 Educational Psychology (3)
Application of psychological principles to teaching, cognition, learning, motivation, measurement, individual differences, and behavior management. PREQ for education majors. EDCI 231, PSY 320, admitted to teacher education. Field experience required

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

327 Psychology of Aging (3)
The process of aging during the later years, biological, psychological, and cognitive changes, theories of aging, counseling approaches. PREQ 250 or permission of instructor

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

333 Psychology of Sex Differences (3)
Development of sex differences and similarities in cognition, personality, and social behaviors, the role of physiological, social, and cultural factors. PREQ 250 or permission of instructor

360 Psychological Testing (3)
History, theory, and practice of measurement, test development and standardization, evaluation of intelligence, achievement, aptitude, and personality. PREQ 250 or permission of instructor

363 Behavioral Intervention (3)
A survey of behavioral theory covering both nonmediational and mediational approaches. Applications of behavioral theory to a variety of difficulties including school and clinical settings. PREQ 250 or permission of instructor

389 Cooperative Education in Psychology (1 or 3, R15)
See Cooperative Education Program

393 Topics in Psychology (3, R9)
PREQ 250 or permission of instructor

410 Individual Psychology (3)
Theory and practice related to self-understanding, problem solving, and interpersonal relationships. PREQ 250 and 6 hours of psychology or permission of instructor

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
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisite</th>
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<tbody>
<tr>
<td>430</td>
<td>Personality (3)</td>
<td>Assumptions, constructs, and theories of personality, related empirical findings</td>
<td>PREQ 250 or permission of instructor</td>
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<tr>
<td>440</td>
<td>Physiological Psychology (3)</td>
<td>Physiological and biochemical bases of behavior, sensation, neurophysiological correlates of learning, memory, sleep, other topics</td>
<td>PREQ 250 or permission of instructor</td>
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<tr>
<td>441</td>
<td>Health Psychology (3)</td>
<td>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</td>
<td>PREQ 250 or permission of instructor</td>
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<tr>
<td>444</td>
<td>Language, Memory, and Cognition (3)</td>
<td>Theories and principles of human information processing, language production and comprehension, basic processes in memory and cognition</td>
<td>PREQ 250 or permission of instructor</td>
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<tr>
<td>448</td>
<td>Human Neuropsychology (3)</td>
<td>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</td>
<td>PREQ 250 or permission of instructor</td>
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<tr>
<td>445</td>
<td>Systems and Theories in Psychology (3)</td>
<td>Systematic survey of psychology as a scientific endeavor from early approaches to contemporary schools and trends</td>
<td>PREQ 250 or permission of instructor</td>
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<tr>
<td>450</td>
<td>Crisis Intervention (1)</td>
<td>Theory and nature of crises, intervention strategies for dealing with a variety of crises such as physical assault, rape, suicide, and natural disasters</td>
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<tr>
<td>470</td>
<td>Abnormal Psychology (3)</td>
<td>Theories of psychopathology, etiology, dynamics, symptomatology, diagnosis, and treatment</td>
<td>PREQ 250 or permission of instructor</td>
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<td>474</td>
<td>The Emotionally Disturbed Child and Adolescent (3)</td>
<td>Etiology, characteristics, assessment, and treatment of deviation, learning difficulties, behavioral and psychotic disorders, problems of the handicapped</td>
<td>PREQ 250 or permission of instructor</td>
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<tr>
<td>480</td>
<td>Research in Psychology (1-6, R6)</td>
<td>Supervised research experiences for advanced students</td>
<td>S/U grading</td>
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<td>482</td>
<td>Internship in Psychology (3, 3, 3, 3)</td>
<td>Application of theory, methods, and techniques in a cooperating agency under faculty</td>
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<td>483</td>
<td>Counseling, or permission of instructor</td>
<td>Supervised research experiences for advanced students</td>
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<td>485</td>
<td>Supervised research experiences for advanced students S/U grading</td>
<td>PREQ 250, 251, 252, permission of instructor</td>
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<tr>
<td>495</td>
<td>Senior Seminar in Psychology (3)</td>
<td>Overview of the history and current state of psychology, Discussions of important facts, issues, concepts, and theoretical perspectives in psychology</td>
<td>Senior status as a psychology major</td>
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**Graduate Courses**

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<tr>
<td>510</td>
<td>Individual Psychology (3)</td>
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<td>520</td>
<td>Death and Dying (3)</td>
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<td>530</td>
<td>Personality (3)</td>
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<td>540</td>
<td>Physiological Psychology (3)</td>
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<td>541</td>
<td>Health Psychology (3)</td>
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<td>Human Neuropsychology (3)</td>
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<td>555</td>
<td>Systems and Theories in Psychology (3)</td>
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<td>570</td>
<td>Abnormal Psychology (3)</td>
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<td>661</td>
<td>Psychological Assessment I (4)</td>
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<td>662</td>
<td>Personality Assessment (3)</td>
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<td>663</td>
<td>Assessment and Intervention with Infants (3)</td>
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<td>671</td>
<td>Advanced Psychopathology (3)</td>
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<td>672</td>
<td>Psychotherapy I Theories (3)</td>
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<td>673</td>
<td>Professional Issues (3)</td>
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<td>675</td>
<td>Behavioral Interventions (3)</td>
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<td>676</td>
<td>Psychotherapy II Techniques (3)</td>
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<td>677</td>
<td>Group Psychotherapy (3)</td>
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</tbody>
</table>
The Emotionally Disturbed Child and Adolescent (3)  678 Family Systems (3)
Advanced Social Psychology (3)  679 Survey of Clinical Psychology (3)
Advanced Educational Psychology (3)  680 Directed Study in Psychology (3, R6)
Child Development (3)  683 Internship in Psychology (6, 6)
Adolescent Development (3)  684
Adulthood and Aging (3)  686 Practicum in Psychology (4)
Advanced General Psychology (3)  693 Topics in Psychology (3, R9)
Advanced Research Methods (3)  697 Seminar Behavioral/Emotional Evaluation of
Child Development (3)  Children and Adolescents (3)
Adolescent Development (3)  698 Rorschach Seminar (3)
Adulthood and Aging (3)  699 Thesis (3, R6)

Public Affairs (PA)

Graduate Courses
571 Government-Business Relations (3)  673 Public Policy Analysis (3)
572 Public Policy Formulation (3)  674 Statistics and Decision Making (3)
670 Public Affairs Administration (3)  675 Metropolitan Government (3)
671 Budgetary Processes (3)  676 Government and Press Relations (3)
672 Governmental Organizations (3)  685 Internship in Public Affairs (3)

Reading (EDRD)

250 College Reading and Vocabulary (3)
   Extending skills for college and recreational reading emphasis on vocabulary and
   comprehension

280 Speed Reading (3)
   Techniques for improving reading speed, efficiency, vocabulary, and study habits,
   skimming, pacing, eye exercises, comprehension, and retention  2 Lecture, 2 Lab

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 communica-
   tion skills in the total developmental reading program PREQ Admission to the
   professional sequence or permission of the instructor

389 Cooperative Education in Reading (1 or 3, R15)
   See Cooperative Education Program

443 Middle Grades Reading (3)
   Methods and materials for teaching reading and other communication skills in the
   middle grades, emphasis on organization for instruction, word identification and
   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 443 3 Lecture, 2 Lab

474 Practicum in Teaching Reading (3)
   Assessment of reading problems and strategies for teaching reading
   PREQ 334 or 443 and EDEL 315 2 Lecture, 2 Lab

Graduate Courses
520 Phonics and Word Analysis (3)  676 Reading Workshop (3)
533 Reading and Communication Skills (3)  700 History and Psychology of Reading Instruction (3)
Recreational Therapy (RTH)

253 Psychomotor Activity Skills (2)
Active and passive activities used to improve functional abilities of clients in physical rehabilitation settings

340 Foundations of Recreational Therapy (3)
An investigation into the prescribed use of recreational activity as a clinical treatment modality for persons whose functional abilities are impaired

352 Recreational Therapy Processes and Techniques (3)
Assessment, planning, implementation, and evaluation strategies attendant to recreational therapy service delivery  PREQ 340

360 Recreational Therapy Services for the Elderly (3)
Addressing the physical, psychological, and social needs of the elderly through recreational therapy

385 Pre-Internship Seminar (1)
Overview of NCTRC standards for professional certification, personal communication skills, practicum documentation requirements, internship site selection  PREQ RTH major, junior standing

389 Cooperative Education in Recreational Therapy (1 or 3, R15)
See Cooperative Education Program

396 Special Topics (1-3)

417 Administration of Recreational Therapy Services (3)
Contemporary recreational therapy program organizational principles and administrative issues  PREQ 340

450 Advanced Methods in Recreational Therapy (3)
Theoretical and practical examination of contemporary implementation procedures used in recreational therapy practice  Field trips required  PREQ 340 or permission of instructor  2 Lecture, 2 Lab

470 Adventure-Based Recreational Therapy (3)
A theoretical and practical investigation of structured outdoor experiences as vehicles for facilitating human growth and development  Field trips required  PREQ PRM 321 or permission of instructor  2 Lecture, 2 Lab

481 Independent Study (1-3)

484 Recreational Therapy Clinical Internship (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 RTH major and permission of curriculum coordinator  3 hours per credit hour
Religion (REL)

105 Eastern Religious Traditions (3)
A survey of the major Eastern religious traditions, such as Hinduism and Buddhism, and an attempt to answer the question What is religion?

106 Western Religious Traditions (3)
A historical study of Judaism, Christianity, and Islam, and their influences on Western civilization

380 Independent Study (1-3, R6)

493 Topics in Religion (3, R6)

Science Education (SCI)

293 Shop for Science Teachers (3)
Design, construction, and repair of simple laboratory apparatus and electronic equipment, basic work with wood, metal, glass, and soldering 6 Lab

331 Methods and Materials for Elementary Science (2)
Integrated lab experiences in micro-teaching, inquiry teaching skills using recent curricular materials  PREQ Completion of general education science requirements

341 Methods and Materials for Secondary School Science (2)
Integrated treatment of methods, materials, curriculum, and innovations in secondary science  PREQ Completion of general education science requirements

451 Environmental Science for Teachers (3)
Materials and techniques for interdisciplinary projects

493 Topics in Science Education (1-3, 1-3)

494

Graduate Courses

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

Secondary Education and Special Subject Teaching (EDSE)

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 advisor 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
495 Student Teaching Seminar (3)  
Theory related to practice during student teaching  COREQ 490, 492

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, 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  3 Lecture, 2 Lab

304 School Social Work (3)  
Practice in the school system, its content, history, and legal framework  Special needs children, designs, delivery, and evaluation of services

326 Child Welfare (3)  
Child welfare services, public and private programs, children's rights, and issues affecting services for children and families

327 Social Work with Families (3)  
Concepts and skills for intervention with families, emphasis on use of family strengths and community resources in family problem solving

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

334 Human Behavior and the Social Environment (3)  
Focus on the interaction of people with their environments from infancy to later adulthood  A variety of theories and research about human growth and development are considered  
PREQ PSY 250, SOC 231, BIOL 134

335 Social Work Research and Evaluation (4)  
Scientific methods of research used in building practice knowledge and evaluating service delivery  
PREQ 253, MATH 170  3 Lecture, 2 Lab

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 253, 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

389 Cooperative Education in Social Work (1 or 3, R15)
See Cooperative Education Program

393 Topics in Social Work (3, R9)

395 Seminar in Social Work (1-3, R9)
Current trends and issues for practice, studies of social work agencies and programs, examination of social welfare policies and concerns  PREQ Permission of instructor

402 Person, Environment, Culture (3)
Integration of human behavior and social environment, emphasis on selected subcultures and minority groups  PREQ 334

481 Independent Study (1-3, R6)
PREQ 253 or permission of department head

483 Internship in Social Work (3, 3, 3)
Work experience in an agency related to the student's interest and career objectives
484 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 (4)
Integration of content with field practice  COREQ 486, 487, 488

Graduate Course
593 Topics in Social Work (1-3, R6)

Sociology (SOC)

103 (300) Human Society (3)
Analysis of human behavior in social and cultural contexts, emphasizing the sociological perspective  (P1a)

105 (PSC/SOC 105/308) Current Political and Social Issues (3) (F3)

231 Principles of Sociology (3)
Analysis of human social behavior, basic concepts in current theory and research

304 Social Change (3)
Changes in human societies through cultural, economic, social, and political processes, introduction to development, social movements, and social conflict  PREQ 231 or permission of instructor

314 Social Inequality (3)
Social inequalities in wealth, income, prestige, and power, inequalities based on sex, age, and race  PREQ 231 or permission of instructor

326 Gender Roles and Society (3)
Gender roles examined in a sociological context emphasizing the relationship between these roles and the pre-existing sexual stratification system  PREQ 231 or permission of instructor

327 Women and Development (3)
A cross-cultural overview of the impact of modernization on women's status and women's roles in the development process  PREQ 231 or permission of instructor
328 Women of Color (3)
Life experiences and achievements of women of color in the United States are reviewed. Topics covered include activism, employment, education, health, family life, religion, and the media. PREQ 231 or permission of instructor.

330 Rural Society (3)
Application of sociological concepts to rural environments, characteristics of rural population, social structure, social institutions, social change, structure of agriculture, local government structure and processes. PREQ 231 or permission of instructor.

342 The Individual in Society (3)
Individual behavior in social context, social interaction. PREQ 231 or permission of instructor.

350 Deviant Social Behavior (3)
Causes and control of individual and group rebellion or retreat from prescribed social norms.

354 Social Problems (3)
Problems of modern American society such as poverty, social conflict, corporate power and capitalism, alienation, and deviance.

355 Criminology (3)
Nature, extent, and causes of criminal behavior, role of police, courts, and corrections, prevention and control programs.

380 (ANTH 380) Ethnographic Research Methods (3)

385 Methods of Social Research (3)
The logic of scientific inquiry, techniques of research used in sociology, including sample surveys. PREQ 231 or permission of instructor.

386 Analysis of Social Data (3)
Methods for presentation and analysis of social scientific data, descriptive and inferential techniques, measures of association. PREQ 385.

389 Cooperative Education in Sociology (1 or 3, R15)
PREQ 231 or permission of instructor. See Cooperative Education Program.

391 Sociological Theory (3)
The development of sociological theory, issues in classical and contemporary social thought. PREQ 231 or permission of instructor.

414 (ANTH 414) Minority Groups (3)
Relations between dominant and subordinate races and ethnic groups, historical and comparative aspects, African-Americans, Chicanos, and Indians. PREQ 231 or permission of instructor.

423 (SM 423) Sociology of Sport (3)
Social issues in sport examined from historical, cross-cultural, and sociological perspectives with attention to impact of race, gender, and social class on participation. PREQ Junior standing, SM 260 for SM majors.

432 Community Organization and Development (3)
Community organization viewed as a process of bringing about desirable changes in community life. Community structure, needs assessment, and planning for change. PREQ 231 or permission of instructor.

434 Regional and Societal Development (3)
Social dimensions of economic growth and development with particular emphasis on Third-World countries, alternative definitions of development, and changing national, regional, and institutional structures. PREQ 231 or permission of instructor.
448 Social Movements (3)
Social movements and collective behavior, mass efforts to promote or resist social change, comparison of nots, reform movements, and revolutions. PREQ 231 or permission of instructor.

454 Sociology of Conflict and Conflict Resolution (3)
Analysis of sociological theories of social conflict, including Marx, Weber, Simmel, Coser, Dahrendorf, and Collins, case studies of conflict and conflict resolution stressing the applications of theory and research. PREQ 231 or permission of instructor.

480 Independent Study in Sociology (1-2, R6)
PREQ 231 or permission of instructor.

483 Internship in Sociology (3, 3, 3)
Application of theory and knowledge to work experience in a cooperating agency. S/U grading. Three hours credit applicable to sociology major or minor. 9 hours per week per course. PREQ 231 or permission of instructor.

494 Topics in Sociology (3, R6)
PREQ Permission of instructor.

Graduate Courses
514 (ANTH 514) Minority Groups (3) 554 Sociology of Conflict and Conflict Resolution (3)
523 Sociology of Sport (3) 580 Independent Study in Sociology (1-2, R6)
532 Community Organization and Development (3) 594 Topics in Sociology (3, R6)
534 Regional and Societal Development (3) 601 Rural Society (3)

Spanish (SPAN)
101 Spanish Language and Culture (3)
Elements of understanding, speaking, reading, and writing Spanish, basic grammatical concepts, lab practice required. (P3a)

105 The Spanish-Speaking World (3)
Study of Spanish culture and its relationship to the cultures of countries and regions where Spanish is spoken. (P4)

110 Intensive Spanish I (6)
Developing skills in understanding, speaking, reading, and writing, emphasis on oral aspects, the Rassias Method. Three hours credit only applicable to general education. PREQ Permission of instructor. 4 Lecture, 3 Lab, 5 Drill. (P3a)

132 Elementary Spanish (3)
PREQ Placement or permission of department head.

231 Intermediate Spanish I, II (3, 3)
Continuation of oral and written Spanish grammar, readings and discussion on Spanish culture and civilization, readings in more specialized areas, lab practice may be assigned. PREQ 132 or equivalent or placement for 231, 231 or equivalent or placement for 232.

240 Intensive Spanish II (6)
Continuation of 110, increasing emphasis on reading and writing skills. PREQ Permission of instructor. 4 Lecture, 5 Lab, 5 Drill.

301 Spanish Composition (3)
PREQ 232 or equivalent or placement.

302 Conversational Spanish (3)
Advanced intermediate course emphasizing topical dialogue. PREQ 232 or equivalent or placement.
303 Applied Spanish Conversation (3, R6)
Apprenticeship in the intensive language program PREQ 232 or 240, sophomore standing, selection by faculty. 10 Lab

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K-12. PREQ Admission to professional sequence or permission of instructor.

321 Spanish Civilization (3)
Geographical, political, cultural, and historical aspects of Spain. PREQ 232 or 240. PREQ or COREQ 301 or 302 or permission of department head.

322 Latin American Civilization (3)
Geographical, political, cultural, and historical aspects of Latin America. PREQ 232 or 240. PREQ or COREQ 301 and 302 or permission of department head.

331 Survey of Spanish Literature I, II (3)
Survey of Spanish literature texts, reading and analysis of literary works. PREQ 232 or 240.

332 Survey of Latin American Literature (3)
Survey of Latin American literature texts, reading and analysis of literary works. PREQ 232 or 240. PREQ or COREQ 301 and 302 or permission of department head.

333 Introduction to Spanish Prose and Poetry (3)
Introduction to Spanish literary texts, reading and analysis of literary works. PREQ 232 or 240.

335 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.

351 Cooperative Education in Spanish (1 or 3, R15)
PREQ 301, 302. See Cooperative Education Program.

393 Special Topics in Spanish (1-3, R6)
PREQ 232 or 240.

431 Studies in Spanish Literature (3, R6)
Study of an author or authors, a genre, literary movement, school, or literary period of Spain. PREQ 232 or 240. PREQ or COREQ 301 and 302 or permission of department head.

432 Studies in Latin American Literature (3, R6)
Study of an author or authors, a genre, literary movement, school, or literary period of Latin America. PREQ 232 or 240. PREQ or COREQ 301 and 302 or permission of department head.

451 Advanced Spanish Grammar (3)
Study of the more difficult grammatical forms and usages of the Spanish language. PREQ 232 or 240. PREQ or COREQ 301 and 302 or permission of department head.

452 Advanced Spanish Conversation (3)
Discussion of selected topics, reports on assigned readings, situational dialogues in practical, everyday Spanish. PREQ 232 or 240. PREQ or COREQ 301 and 302 or permission of department head.

481 Independent Studies in Spanish (1-3, R6)
PREQ 232 or 240. PREQ or COREQ 301 and 302 or permission of department head.
Special Education (SPED)

240 The Exceptional Child (3)
Areas and characteristics of exceptionalities, problems in learning and personal-social adjustment of exceptional children, educational alternatives

310 Evaluation of the Exceptional Child (3)
Development of assessment programs and evaluation procedures, practice administering and interpreting tests

312 Teaching Elementary Students with Learning Problems (K-6) (3)
Methods and materials for evaluating and instructing children with mild to moderate learning problems. PREQ 240, admission to the professional education sequence

323 Preprofessional Seminar in Mental Retardation (3)
Topics related to field experiences

335 Teaching Exceptional Children (2)
Overview of exceptional children, emphasis on methods and materials for integrating students into regular classrooms. Not open to special education majors. PREQ Admission to the teacher education program or permission of department head

389 Cooperative Education in Special Education (1 or 3, R15)
See Cooperative Education Program

401 Introduction to Learning Disabilities (3)
Historical concepts and theories of learning disabilities, educational characteristics of learning-disabled children, overview of remedial programs. PREQ 240

405 Introduction to Mental Retardation (3)
Multidisciplinary approach to mental retardation, mental performance and functioning related to human development. PREQ 240 or permission of department head

413 Teaching Adolescents with Learning Problems (3)
Survey and evaluation of curricular models, diagnosis, developing instructional strategies, establishing goals and objectives. PREQ 312, admission to professional-education sequence, senior status

417 Managing Classrooms for Exceptional Children (3)
Principles and techniques of classroom and behavior management. PREQ 240 and admission to the teacher education program

432 The Physically Handicapped Child (3)
Social, psychological, and medical problems of children with physical disabilities

450 Individual Educational Plans for Students with Disabilities (3)
Development of Individual Educational Plans (IEPs), formal and informal assessment and instructional planning, study of federal and state regulations. PREQ 240 and admission to the professional education sequence

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

490 Supervised Student Teaching (9)
A full-time teaching experience. COREQ 495
### Special Education Seminar (3)
Working with parents, teachers, students, and others in a helping consultative relationship, skills for effective participation on interdisciplinary teams. PREQ 240 and admission to the teacher education program. COREQ 490

### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>501</td>
<td>Introduction to Learning Disabilities</td>
<td>3</td>
<td></td>
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<tr>
<td>502</td>
<td>Current Issues in Special Education</td>
<td>3</td>
<td></td>
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<tr>
<td>504</td>
<td>Educational Programs for Students with Behavioral Disorders</td>
<td>3</td>
<td></td>
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<tr>
<td>513</td>
<td>Teaching Adolescents with Learning Problems</td>
<td>3</td>
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<tr>
<td>529</td>
<td>Educational Programs for Students with Mental Retardation</td>
<td>3</td>
<td></td>
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<tr>
<td>531</td>
<td>The Physically Handicapped Child</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>593</td>
<td>Topics in Special Education (1-3, R6)</td>
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<tr>
<td>600</td>
<td>Creative Thinking and Problem Solving</td>
<td>3</td>
<td></td>
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<tr>
<td>603</td>
<td>Administration of Special Education Programs</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>630</td>
<td>Teaching Students with Mild to Moderate Mental Retardation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>631</td>
<td>Appraisal of Exceptional Children</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>632</td>
<td>Seminar in Learning Disabilities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>633</td>
<td>Research in Special Education</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>634</td>
<td>Teaching Students with Behavioral Disorders</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>680</td>
<td>Practicum in Special Education (1-3, R3, each course)</td>
<td>3</td>
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</tbody>
</table>

### Sport Management (SM)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>213</td>
<td>Introduction to Athletic Training</td>
<td>3</td>
<td>Prevention of injuries, bandaging and the treatment of basic injuries in varsity athletics</td>
</tr>
<tr>
<td>260</td>
<td>Introduction to Sport Management</td>
<td>3</td>
<td>Career opportunities, competencies, and management skills, overview of management functions and ethics, history of sport management</td>
</tr>
<tr>
<td>313</td>
<td>Psychological Aspects of Sport</td>
<td>3</td>
<td>The psychological aspects of sport and coaching methods. PREQ Junior standing, 260</td>
</tr>
<tr>
<td>315</td>
<td>Introduction to Intramurals and Recreational Sport Management</td>
<td>3</td>
<td>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</td>
</tr>
<tr>
<td>330</td>
<td>Aquatic Recreation Management</td>
<td>3</td>
<td>Organization, programming, facility design, and maintenance in various aquatic recreational environments. Course may lead to Certified Pool Operator certification</td>
</tr>
<tr>
<td>380</td>
<td>Independent Study</td>
<td>1-3</td>
<td>A topic in sport management agreed upon by student and instructor. PREQ ENGL 102, permission of department head</td>
</tr>
<tr>
<td>383</td>
<td>Apprenticeship</td>
<td>1-3</td>
<td>Apprenticeship to develop necessary skills before entering the required internship. PREQ Permission of department head. 3 Lab</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Sport Management</td>
<td>1 or 3</td>
<td>PREQ Permission of instructor. See Cooperative Education Program.</td>
</tr>
<tr>
<td>413</td>
<td>Athletic Injury Assessment</td>
<td>3</td>
<td>A concentrated study on athletic injury assessment and rehabilitation. PREQ PE 213</td>
</tr>
<tr>
<td>415</td>
<td>Legal Issues for the Sport Practitioner</td>
<td>2</td>
<td>Study of legal issues related to sport delivery systems, physical education, and recreation settings. Legal terminology, risk management, case law, and current issues are analyzed. PREQ Senior standing, or permission of instructor. For SM majors, SM 260</td>
</tr>
</tbody>
</table>
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
PREQ Junior standing, SM 260 for SM majors

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 Junior standing

460 Financial Aspects of Sport (3)
Financial considerations important to sponsors, budgeting, fund raising, and economic impact of sport events, historical aspects
PREQ SM 260 for SM majors only, ACCT 161 or 251, MKT 301, ECON 231, and senior standing

461 Sport Marketing Promotions (3)
Historical study of sport marketing, techniques in developing sport sponsorship proposals and effective sport promotions, sport marketing applications
PREQ SM 260 for sport management majors, junior standing, MKT 301

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

495 Sport Management Seminar (2)
Analysis of management, organizational structure, and strategic planning in sports organizations, current issues in sports management
PREQ SM major, SM 260, senior standing

Therapeutic Recreation (see Recreational Therapy)

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)
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

Graduate Courses

693 Topics in Graduate Education (1-3, R6)
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 18th century. The first class was admitted in Chapel Hill in 1795. For the next 136 years, the only campus of the University of North Carolina was at Chapel Hill.

In 1877, the N.C. General Assembly began sponsoring additional institutions of higher education, diverse in origin and purpose. Five were historically African-American institutions, and another was founded to educate American Indians. Several were created to prepare teachers for the public schools. Others had a technological emphasis. One is a training school for performing artists.

In 1931, the 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.

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Vice President, Communications
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 20 years.

Beginning about 1912, the status of the school was gradually raised to that of a two-year normal school or junior college. With state support increasing and work at the secondary level discontinued, the name of the school was changed in 1925 to Cullowhee State Normal School.

In 1929, under a new charter authorizing the school to extend its work to the four-year level, the name Western Carolina Teachers College was adopted. Modifications in function and rapid growth climaxed in 1931 with the addition of the postgraduate year to the curriculum, and the granting of the Master of Arts in Education degree was authorized. Demands in the liberal arts, and for programs in other areas of learning, led to an expansion of its offerings and to a further change, in 1953, to the name Western Carolina College.

In 1967 the institution was designated a regional university by the North Carolina General Assembly and the name of the institution was changed to Western Carolina University.

In 1971 the state legislature reorganized higher education in North Carolina, and on July 1, 1972, Western Carolina University became a constituent institution of the University of North Carolina.

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Assistant to the Chancellor, Western Carolina University
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Associate Athletics Director/Senior Women’s Administrator
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Women’s Basketball Coach
Assistant Women’s Basketball Coach
Assistant Women’s Basketball Coach
Volleyball Coach
Assistant Football Coach
Assistant Football Coach
Men’s Assistant Basketball Coach
Men’s Assistant Basketball Coach
Men’s Head Basketball Coach
Assistant Football Coach
Assistant Football Coach
Men’s & Women’s Golf Coach
Men’s and Women’s Track and Cross Country Coach
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Women’s Tennis Coach
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Information and Communications Specialist I
Administrative Assistant/Eligibility Coordinator
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Director, Major Gifts
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Associate Vice Chancellor
Assistant to the Vice Chancellor

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Dean, Research and Graduate Studies
Dean, College of Business
Dean, College of Applied Sciences
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Associate Dean, College of Arts and Sciences
Associate Dean, College of Applied Sciences
and University Planner
Associate Dean, Research and Graduate Studies
Director, International Programs and Services

Director, General Education Program
Director, Honors Program
Director, Myron L. Coulter Faculty Center for Excellence
in Teaching and Learning
Associate Director, Faculty Center
Associate Director, Faculty Center
Coordinator, Undergraduate Assessment Program

Director of Advising and Pre-College Services
Director of Admissions
Acting Registrar
Director of Career Services
Director of Retention Services
Retention Coordinator

Director
Associate Director, University Reports

Director, Reading Center
Director, Speech and Hearing Center
Director, Office for Rural Education
Director, Center for Mathematics and Science Education
Director, Caribbean and Latin American Programs
Katherine M Hill, M Ed  Director, Vocational/Technical Instructor Project
William J Kirwan, M S L S  Acting Dean, Continuing Education and Summer School
Malcolm Loughlin, M A Ed  Coordinator, Evening Programs in Asheville
Patricia L Miller, M A Ed  Director, Developmental Evaluation Center
Hoyt Ponder, Ph D  Director, Mountain Aquaculture Research Center
Peter Galbreath, M S  Director, NC Center for the Advancement of Teaching

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George W Wooten, M A  Associate Vice Chancellor, Controller
Robert Olson, M P A  University Budget Officer, Assistant to the Vice Chancellor

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Pamela D DeGraffenreid, B S B A  Manager, Bookstore
Kathy S Wong, B A  Personnel Officer
Arthur Stephens, M B A  Director, Purchasing
Robert T Edwards, B S B A  Internal Auditor
Randy Rice, M S  Director of Housing
Aubrey Wooten, B A  (Marnot Corp)  Director of Dining Services
Arthur E McAbee, M S  Director, Office of Public Safety
Walter R Wilcox, M A Ed  Director, Ramsey Regional Activity Center
Harold Holcomb, M Ed  Director, Auxiliary Services

Office for University Services
James E Dooley, Ph D  Vice Chancellor

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Tim Richards  Director, Economic Development Administration, University Technical Assistance Center
Allan Steinberg  Director, Western Regional Service Center, Small Business Technology Development Center
Vickey Wade  Director, Local Government Training Program
Violet S Vassian  Special Assistant to Director
James E Dooley, Ph D  Acting Director, Western North Carolina Tomorrow

Mountain Heritage Center
H Tyler Blethen, Ph D  Director
Suzanne Hill McDowell, M A  Curator
Julie DeBarr, B A  Museum and Educational Associate
William Mansfield, M A  Folklorist

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Bonita Jacobs, Ph D  Dean, Student Development
William K Haggard, Ed D  Director, Student Services
Richard Cameron, M Ed  Assistant to the Vice Chancellor
Ernest Jeffnes, M Ed  Assistant Vice Chancellor and Director of Housing
R Randy Rice, M S
Thomas W. Grant, M.S., 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.
Carla Casio, M.A., Director, Counseling Center
Coordinator, Wellness Program

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Judith M. Stillion, Ph.D.
Benjamin Franklin Ward, A.M.
Katherine M. Hill, M.Ed.
Elizabeth Bowser, Ed.D.

North Carolina Center for the Advancement of Teaching
Mary Jo Utley, Ed.D.
Kay S. Shapiro, Ed.S.
Judith E. Clauss, Ph.D.
Jerome D. Franson, Ph.D.
Ada E. Setzer, Ed.D.

Donna Glee Williams, Ph.D.
James E. O'Connor, Ph.D.
Henry Wong, Rh.D.
Gracia W. Slater, B.A.
James G. Johnson, M.A.
Christin M. McCarley, M.A.
FACULTY
1995-96

*John W. Bardo, Ph.D.

*John H. Wakeley, Ph.D.
Vice Chancellor for Academic Affairs, Professor of Psychology, A.B., College of Wooster, 1954, M.S., North Carolina State University at Raleigh, 1958, Ph.D., Michigan State University, 1961 Date of appointment, 1987

Millicent H. Abel, Ph.D.
Assistant Professor of Psychology, B.A., Indiana University Southeast, 1979, M.A., Ph.D., University of Louisville, 1982, 1988 Date of appointment, 1992

*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, 1974 Date of appointment, 1980

Mary F. Adams, Ph.D.
Assistant Professor of English, B.A., Smith College, 1984, M.F.A., Ph.D., University of Iowa, 1989, 1995 Date of appointment, 1995

Maynard Francis Adams, Ed.D.

Elizabeth H. Addison, Ph.D.
Assistant Professor and Director of Freshman English, B.A., Transylvania College, 1968, M.A., University of Tennessee, 1975, Ph.D., Duke University, 1985 Date of appointment, 1990

*James Clyde Addison, Ph.D.
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, College of Arts and Sciences, Professor of Communication, A.B., B.D., Duke University, 1956, 1959, M.A., Ph.D., Ohio University, 1970, 1973 Date of appointment, 1972

**Louis R. Alexander, Ph.D.
Instructor of Chemistry, B.S., Georgia State University, 1971, Ph.D., Emory University, 1984 Date of appointment, 1995

*Davia Massey Allen, Ph.D.
Associate Professor and Head, Department of Human Environmental Sciences, B.S.Ed., Western Carolina University, 1966, M.S.H.E., University of North Carolina at Greensboro, 1969, Ph.D., University of South Carolina, 1973 Date of appointment, 1979

Grace C. Allen, Ph.D.
Assistant Professor of Finance, B.S., Agnes Scott College, 1978, M.B.A., Appalachian State University, 1985, Ph.D., University of South Carolina, 1991 Date of appointment, 1991

*William Louis Anderson, Ph.D.

Kenneth J. Ayala, M.S.E.E.
Associate Professor of Industrial and Engineering Technology, B.S., Virginia Military Institute, 1961, M.S.E.E., Georgia Institute of Technology, 1967 Date of appointment, 1990.

Stephen Michael Ayers, Ph.D.
Assistant Professor of Theatre Arts, B.A., Maryville College, 1975, M.A., University of Houston at Clear Lake, 1981, Ph.D., University of Colorado, 1988 Date of appointment, 1985

*Ellen Hedrick Bacon, Ph.D.
Associate Professor of Special Education, B.A., Eckerd College, 1966, M.A., Columbia University Teachers College, 1967, Ph.D., University of North Carolina at Chapel Hill, 1977 Date of appointment, 1984

*John Roger Bacon, Ph.D.
Professor and Acting Head of Chemistry, B.S., Kansas State University, 1964, M.S., Ph.D., University of Iowa, 1967, 1968 Date of appointment, 1972

John Martin Baker, Ph.D.
Associate Professor of Mathematics, B.S., Mississippi State University, 1964, M.A., University of Kansas, 1966, Ph.D., Florida State University, 1969 Date of appointment, 1971

**Sherry Baldwin, Ph.D.
Assistant Professor of Human Services, B.S.Ed., Western Carolina University, 1971, M.Ed., University of South Carolina, 1975, Ph.D., University of South Carolina, 1981 Date of appointment, 1992

* Member of the Graduate Faculty
* On leave
* Part time appointment
Joyce Anne Baldwin, M.S.H.E.  
Assistant Professor of Human Environmental Sciences  
Date of appointment, 1970

*Aaron Kermit Ball, Ed.D.  
Associate Professor of Industrial and Engineering Technology  
B S, M A, Appalachian State University, 1975, 1977, Ed D,  
Virginia Polytechnic Institute and State University, 1984  
Date of appointment, 1977

**Deborah K. Barker, M.Ed.  
Instructor of Human Services  
B S Ed, Stephen T Austin State University, 1974,  
M Ed, Northeast Louisiana University, 1980  
Date of appointment, 1993

**Jean W. Barry, M.A.  
Instructor of Music  
B S, University of North Carolina at Asheville, 1986, M A,  
Western Carolina University, 1991  
Date of appointment, 1995

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

Peter C. Bates, Ph.D.  
Assistant Professor of Natural Resources Management  
B S, University of Montana, 1977, M S, Montana State University, 1981,  
Ph D, University of Minnesota, 1990  
Date of appointment, 1993

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Associate 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.  
Associate Professor of Theatre Arts  
B A, M A, Indiana University, 1966, 1969, Ph D,  
University of Georgia, 1984  
Date of appointment, 1971

Elaine P. Bee, M.H.S.  
Assistant Professor of Health Sciences  
Date of appointment, 1989

*John Alan Beegle, Ph.D.  
Professor of Accounting  
B B A, M B A, University of Miami, 1959, 1960, Ph D,  
St Louis University, 1967  
Date of appointment, 1972

*John Luther Bell Jr., Ph.D.  
Creighton Sossmon Professor of History  
B A, Wake Forest University, 1959, M A,  
Ph D, University of North Carolina at Chapel Hill, 1961, 1970  
Date of appointment, 1963

*Harold Tyler Blethen III, Ph.D.  
Director, Mountain Heritage Center, Professor of History  
Date of appointment, 1972

*Lisa A. Bloom, Ed.D.  
Associate Professor of Human Services  
B A, Indiana University of Pennsylvania, 1980,  
M A, Ed D, West Virginia University, 1986, 1989  
Date of appointment, 1989

*Richard Lewis Boyer, M.F.A.  
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B A, Denison University, 1965, M F A, University of Iowa, 1968  
Date of appointment, 1988

*Paul F. Brandt, Ph D.  
Assistant Professor of Chemistry and Physics  
B S, Southwest State University, 1984,  
Ph D, University of Colorado, 1990  
Date of appointment, 1992

William D. Brotherton, Ph.D.  
Assistant Professor of Human Services  
B S, Missouri Southern State College, 1977,  
M Ed, C A S, Western Carolina University, 1984, 1985, Ph D,  
Florida State University, 1989  
Date of appointment, 1993

Susan Brown-Strauss, M.F.A.  
Assistant Professor of Communication and Theatre Arts  
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*Susan Clare Brown, Ph.D.  
Associate Professor of Sport Management  
B S, Florida State University, 1976, M S,  
Eastern Illinois University, 1983, Ph D, The Ohio State University, 1988  
Date of appointment, 1988

*Richard Conrad Bruce, Ph.D.  
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B S, Tufts University, 1958, M A, Ph D, Duke University, 1961, 1968  
Date of appointment, 1963

*James Garlin Bryant Jr., Ed.D.  
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B A, M Ed, Ed S, University of Georgia, 1962, 1964, 1971,  
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Date of appointment, 1969

*Bill Buchanan, M:F.A  
Assistant Professor of Art  
B A, Eastern Kentucky University, 1962, M A, Ball State
Robert E. Buckner, B.S.Ed.
Lecturer of Music
B S Ed , Western Carolina University, 1967
Date of appointment, 1991

Lee Palmer Budahl, Ph.D.
Associate Professor of Art
Date of appointment, 1972

Debra Burke, J.D.
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Date of appointment, 1992

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Instructor, Geosciences and Anthropology
B A , Wesleyan University, 1973, M S , Ph D , University of Massachusetts, 1986, 1992
Date of appointment, 1991

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Associate Professor and Acting Head of Marketing
B S B A , M S , University of Alabama, 1972, 1975, Ph D , University of Tennessee, 1981
Date of appointment, 1991

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B S , University of Vermont, 1982, Ph D , University of Connecticut, 1990
Date of appointment, 1990

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B S , University of Vermont, 1982, Ph D , University of Connecticut, 1990
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Associate Professor of English
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B A , Wesleyan College, 1966, M F A , UNC-Greensboro
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Date of appointment, 1968

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Director of Student Services, Instructor
Date of appointment, 1971

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B A , University of North Carolina at Asheville, 1968, M B A , Western Carolina University, 1977, Ph D , University of Georgia, 1982
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Date of appointment, 1983

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Date of appointment, 1976

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Professor of Special Education
Date of appointment, 1979

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A B , Colby College, 1982, M L S , Rutgers University, 1984
Date of appointment, 1990

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A B , Wofford College, 1960, M A , Ph D , Florida State University, 1967, 1971
Date of appointment, 1977

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B S , Western Illinois University, 1976, M A , Utah State University, 1984, Ed D , University of Georgia, 1994
Date of appointment, 1994

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Date of appointment, 1989

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Assistant Professor of Social Work
B A , M S , Ph D , Purdue University, 1986, 1990, 1994
Date of appointment, 1995

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B S , Ed S , George Peabody College for Teachers, 1956, 1967,
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Professor of Psychology B S, Ohio University, 1956, M S, Akron University, 1957, Ph D, Case Western Reserve University, 1969  Date of appointment, 1969 

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Head Reference Librarian, Associate Professor B S, University of Pennsylvania, 1952, M Ln, Emory University, 1967  Date of appointment; 1971 

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Professor of Education and Head, Department of Human Services B A , M A , Uni-
versity of Notre Dame, 1968, 1971, M A T, Oakland University, 1970, Ph D, Indiana State University, 1974. Date of appointment, 1976

*Judy Holcombe Dowell, Ph.D.
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**Valerie K. Duckett, M.A.

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Bobbye J. Dunlap, D.B A

**Audrey E. Durner, M.A.

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Associate Professor of English B A, University of Texas, 1966, M A , Ph D, University of Michigan, 1967, 1970. Date of appointment, 1970

Dana M. Edge, M.L.S.

**Fitzallen N. Eldridge, M.A.
Instructor of Art B A, University of Georgia, 1964, M A, Western Carolina University, 1992. Date of appointment, 1995

Gillian D. Ellern, M L.I.S.
Assistant Professor, Hunter Library B S, Wesleyan College, 1985, M L I S, Louisiana State University, 1986. Date of appointment, 1990

Constance V. Faircloth, Ed.D.
Assistant Professor of Elementary and Middle Grades Education B S, Toccoa Falls College, 1972, M Ed, Ed S, Georgia State University, 1975, 1982, Ed D, University of Georgia, 1990. Date of appointment, 1994

Betty A. Farmer, Ph.D.
Assistant Professor of Communication and Theatre Arts B A, Chinc Valley College, 1986, M S, Ph D, University of Tennessee, 1988, 1993. Date of appointment, 1993

*Harold Frederick Farwell, Jr., Ph.D.

Marilyn E. Feldmann, Ph.D.
Associate Dean, College of Education and Allied Professions, Assistant Professor of Human Services B S Ed, Illinois State University, 1971, M S Ed, Northern Illinois University, 1975, Ph D, Illinois State University, 1980. Date of appointment, 1987

Sally J. Feltner, Ph.D.
Assistant Professor of Health Sciences B S, Miami University, Oxford, Ohio, 1958, M S, Rivier College, N H, 1974, Ph D, Texas Woman's University, 1988. Date of appointment, 1994

Roy J. Ferguson, B.S.
Captain, US Army, Assistant Professor of Military Science B S, Flagler College, 1982. Date of appointment, 1993

**Alecia Fischer, M.A.
Instructor of Human Services B S, M A, Southwest Missouri State University, 1982, 1985. Date of appointment, 1992

*Martín A. Fischer, Ph.D.
Associate Professor of Human Services B A, University of California, 1974, M S, Central Washington University, 1979, Ph D, University of Oregon, 1983. Date of appointment, 1992

Walter R. Floream, M.A.
Associate Professor of Health Sciences B A, Bellevue College, 1970, M A, University of Missouri, Kansas, 1983. Date of appointment, 1995

*Walter Edward Foegelle, Ed.D.
Associate Professor of Health Sciences B S, Texas Wesleyan College, 1970, M S, South-
west Texas State University, 1977, Ed D, Indiana University, 1984 Date of appointment, 1986

**Burton B. Fox, Ed.D.**

Mario A. Gaetano, D.M.A.
Associate Professor of Music B M E, State University of New York, 1977, M M, East Carolina University, 1978, D M A, Memphis State University, 1986 Date of appointment, 1979

Peter F. Galbreath, M.S.
Director, Mountain Aquaculture Research Center and Instructor of Biology B A, College of Wooster, 1973, M S, Auburn University, 1979 Date of appointment, 1995.

Thomas Clark Gamble, Ph.D.
Assistant Professor of French B A, M A, Ph D, University of Georgia, 1965, 1968, 1972 Date of appointment, 1970

Bruce W. Gay, Ph.D.
Assistant Professor of Criminal Justice Th G, B A, Tennessee Temple University, 1978, 1979, M A, University of Texas at Dallas, 1987, Ph D, Sam Houston State University, 1993 Date of appointment, 1993

*Lu Juan Gibson, Ed.D.*
Assistant Professor of Psychology B A, Appalachian State University, 1973, Ed D, University of Georgia, 1986 Date of appointment, 1991

Terry L. Gibson, D.S.W.
Associate Professor and Head, Department of Social Work and Sociology B A, D S W, University of Alabama, 1962, 1980, M S W, Florida State University, 1965 Date of appointment, 1995

Albert Franklin Gilman III, Ph.D.
Professor of Mathematics B S, Northwestern University, 1952, M A, University of Montana, 1958, M A, Ph D, Indiana University, 1962, 1963 Date of appointment, 1969

JoAnn Dillingham Glasscock, M.N.
Assistant Professor of Nursing B S N, University of Tennessee, 1956, M N, University of California at Los Angeles, 1971 Date of appointment, 1985

*Robert Godfrey, M.F.A.*
Professor and Head, Department of Art B F A, Philadelphia College of Art, 1966, M F A, Indiana University, 1969 Date of appointment, 1985

Paul Milton Gold, Ph.D.
Assistant Professor of Radio and Television B A, M A, University of North Carolina at Chapel Hill, 1976, 1983, Ph D, University of Kentucky, 1993 Date of appointment, 1988

John D. Gould, M.B.A.
Distinguished Visiting Professor of Accounting B A, Brown University, 1952, M B A, University of Michigan, 1957 Date of appointment, 1990

**Amy E. Graham, M.L.S.**
Assistant Professor, Hunter Library, B S, Huntington College, 1982, M S M, Wittenberg University, 1984, M L S, University of Alabama, 1988 Date of appointment, 1992

*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

Jeffrey A. Graham, Ph.D.
Assistant Professor of Mathematics and Computer Science B S, Iowa State University, 1984, M S, Texas Tech University, 1986, Ph D, Rensselaer Polytechnic Institute, 1993 Date of appointment, 1992

*Larry Bertram Grantham, Jr., Ph.D.*
Associate Professor of Human Services B A, M Ed, Mississippi College, 1960, 1969, M R E, Southwestern Baptist Theological Seminary, 1963, Ph D, University of Southern Mississippi, 1972 Date of appointment, 1978

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*Cathryn Griffin, M.F.A.*
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Robert Gurevich, Ph.D.
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** Luann D. Ham, M.A.
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*Frederick William Harrison, Ph.D.
Professor of Biology B.S., M.S., Ph.D., University of South Carolina, 1960, 1962, 1969 Date of appointment, 1977

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Instructor of Communication and Theatre Arts B.S., M.A., Louisiana State University, Baton Rouge, 1973, 1975 Date of appointment, 1993

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*Patrick Allen Hays, Ph.D.
Associate Professor of Finance B.S.C.E., University of Arkansas, 1965, M.B.A., California Western University, 1970, Ph.D., University of North Carolina at Chapel Hill, 1977 Date of appointment, 1985

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Professor of Physics B.A., Frostburg State College, 1974, M.S., Ph.D., University of New Mexico, Albuquerque, 1977, 1983 Date of appointment, 1988

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*Denise Henze, Ph.D.

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*Harold A. Herzog Jr., Ph.D.
Professor of Psychology B.A., The American University of Beirut, 1968, M.A., Ph.D., University of Tennessee, 1974, 1979 Date of appointment, 1987

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*Anthony Andrew Hickey, Ph.D.
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Cornell University, 1971, 1973, 1975 Date of appointment, 1985

*Jo Ann Hickey, Ph.D.
Assistant Professor of Sociology B.A., Cornell University, 1974, B.I.S., M.A., George Mason University, 1981, 1983, Ph.D., Cornell University, 1992 Date of appointment, 1989

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*William Reynolds Higgins, Ph.D.
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Assistant Professor of Business Administration B.S., M.B.A., University of Utah, 1971, 1974, Ph.D., Virginia Polytechnic Institute and State University, 1992 Date of appointment, 1990

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Director of General Education, Associate Professor of Biology B.A., Catawba College, 1960, M.S., University of Arkansas, 1963, Ph.D., Virginia Polytechnic Institute and State University, 1970 Date of appointment, 1966

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Professor of Nursing, B.S.N., University of Iowa, 1962, M.N.Ed., M.S., University of Pittsburgh, 1966, 1967, Ph.D., Florida State University, 1972 Date of appointment, 1989

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Ellerd Miner Hulbert, Ph.D.
Professor of History B.A., Trinity College, 1953, M.A., Yale University, 1957, Ph.D., University of Chicago, 1970 Date of appointment, 1970

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A.B., Western Kentucky University, 1963,
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