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

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

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

Copies of the appropriate issues are made available to all students registered at the university, high school principals and guidance counselors, college and university libraries, and all public and private high schools and institutions of higher learning in North Carolina. Additional copies are available for $2.00 each from the Office of Admissions, Western Carolina University, Cullowhee, North Carolina 28723, telephone (704) 227-7317. Eighteen thousand copies of this public document were printed at a cost of $15,048 00 or $ 84 per copy.

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Vol LXIX- April 1993 No 1
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ACADEMIC CALENDAR

Fall Semester 1993
August 19 Thursday 3 00 6 00 p m
August 22 Sunday 8 00 a m
August 22 Sunday 12 00 noon
August 23 Monday 9 00 a m 4 00 p m
August 23 Monday
August 23 Monday 4 30 p m
August 23 Monday 6 00 p m
August 24 Tuesday
August 24 27 Tuesday Friday
September 3 6
Friday 5 00 p m Monday
September 7 Tuesday 8 00 a m
October 13 Wednesday
October 16 19
Saturday 5 00 p m Tuesday
October 20 Wednesday 8 00 a m
October 25 Monday
November 1 November 19
Monday Friday
November 24 28
Wednesday 2 00 p m Sunday
November 29 Monday 8 00 a m
December 7 Tuesday
December 8 Wednesday
December 9 15 Thursday Wednesday
December 16 Thursday
Registration in Asheville
Residence halls open for students attending orientation
Residence halls open for all students
Orientation for new freshmen and transfer students in Cullowhee
Registration in Cullowhee for students attending orientation
Late registration in Asheville
Freshman Convocation
Evening classes in Cullowhee and Asheville begin
Day classes in Cullowhee begin
Late registration and schedule changes in Cullowhee
Labor Day holiday
Classes resume
Last day to drop a course with a W
Fall holiday
Classes resume
Last day for students completing programs in May to file degree application in the deans offices
Academic advising for spring semester and early registration in Cullowhee
Thanksgiving holiday
Classes resume
Last day of classes
Reading day
Final examinations
Christmas holiday begins

Spring Semester 1994 (Subject to Change)
January 6 Thursday 3 00 6 00 p m
January 9 Sunday
January 10 Monday
January 10 Monday 9 00 a m 4 00 p m
January 10 Monday 6 00 p m
January 11 Tuesday
January 11 14 Tuesday Friday
January 17 Monday
February 26 March 6
Saturday 5 00 p m Sunday
March 7 Monday 8 00 a m
Registration in Asheville
Residence halls open Orientation for new students
Late registration in Asheville
Registration in Cullowhee for new continuing and readmitted students
Evening classes in Cullowhee and Asheville begin
Day classes in Cullowhee begin
Late registration and schedule changes in Cullowhee
Martin Luther King's Birthday holiday
Spring holiday
Classes resume

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

1 A late registration fee of $10 00 will be charged
March 9 Wednesday
March 21 Monday

Last day to drop a course with a W
Deadline for students completing programs in summer or fall to file degree applications in deans’ offices
Academic advising for summer and fall semester and early registration in Cullowhee
Easter holiday
Classes resume
Last day of classes
Final examinations
Commencement

Summer Term 1994 (Subject to Change)

May 30 Monday August 5 Friday
May 30 Monday July 1 Friday
July 4 Monday August 5 Friday
August 5 Friday

Summer session (ten week session)
First summer session
Second summer session
Commencement

Fall Semester 1994 (Subject to Change)

August 18 Thursday 3:00-6:00 p.m
August 21 Sunday 8:00 a.m

Registration in Asheville
Residence halls open for students attending orientation
Residence halls open for all students
Orientation for new freshmen and transfer students in Cullowhee
Registration in Cullowhee for students attending orientation
Late registration in Asheville
Evening classes in Cullowhee and Asheville begun
Day classes in Cullowhee begun
Late registration and schedule changes in Cullowhee
Labor Day holiday

August 23 Tuesday
August 23-26 Tuesday-Friday

Classes resume
Last day to drop a course with a W
Fall holiday

September 2-5
Friday 5:00 p.m. Monday
September 6 Tuesday 8:00 a.m
October 12 Wednesday
October 15 18
Saturday 5:00 p.m. Tuesday
October 19 Wednesday 8:00 a.m
October 24 Monday

Classes resume
Last day for students completing programs in May to file degree application in the deans’ offices
Academic advising for spring semester and early registration in Cullowhee
Thanksgiving holiday

October 31 Nov 18 Monday-Friday

November 23-27
Wednesday 2:00 p.m. Sunday
November 28 Monday 8:00 a.m
December 6 Tuesday
December 7 Wednesday
December 8-14 Thursday-Wednesday
December 15 Thursday

Classes resume
Last day of classes
Reading day
Final examinations
Christmas holiday begins
Spring Semester 1995 (Subject to Change)

January 5 Thursday 3:00-6:00 p.m
January 8 Sunday

January 9 Monday
January 9 Monday 9:00 a.m -4:00 p.m

January 9 Monday 6:00 p.m

January 10 Tuesday
January 10-13 Tuesday Friday

January 16 Monday
February 25 March 5
Saturday 5:00 p.m Sunday
March 6 Monday 8:00 a.m
March 8 Wednesday

March 20 Monday

March 27 April 13

April 14-16 Friday 8:00 a.m Sunday
April 17 Monday 8:00 a.m
April 28 Friday
April 29 May 5 Saturday Friday
May 6 Saturday

Registration in Asheville
Residence halls open  Orientation for new students
Late registration in Asheville¹
Registration in Cullowhee for new continuing and readmitted students
Evening classes in Cullowhee and Asheville begin
Day classes in Cullowhee begin
Late registration and schedule changes in Cullowhee¹
Martin Luther King's Birthday holiday
Spring holiday
Classes resume
Last day to drop a course with a W
Deadline for students completing programs in summer or fall to file degree applications in deans' offices
Academic advising for summer and fall semester and early registration in Cullowhee
Easter holiday
Classes resume
Last day of classes
Final examinations
Commencement

TELEPHONE NUMBERS

Area Code 704

Academic Advising 227 7170
Academic Affairs Office 227 7495
Admissions Readmissions 227 7317
Book Store 227 7345
Employment Student 227 7170
Fees 227 7334
Financial Aid Loans Scholarships 227 7200
Fraternities Sororities Clubs 227 7234
General Student Information 227 7234
Housing 227 7303
International Students 227 7234
Orientation 227 7234
Registrar Student Records Transcripts 227 7232
Schools
School of Applied Sciences 227 7272
School of Arts and Sciences 227 7646
School of Business 227 7401
School of Education and Psychology 227 7311
Graduate School 227 7398
Veterans Affairs 227 7234
THE UNIVERSITY

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

Role and Mission

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

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

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

Principal Functions

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

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

Location

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

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

Governance

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

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

Accreditation

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

Technology Accreditation Commission of the
Accreditation Board for Engineering and Technology Inc (Manufacturing Engineering Technology)
Approved by the American Assembly of Collegiate Schools of Business
American Dietetic Association (Approved Plan V Program)
Committee on Allied Health Education and Accreditation of the American Medical Association in cooperation with the American Health Information Management Association the National Accreditation Agency for Clinical Laboratory Sciences and the Joint Review Committee on Educational Programs for the EMT Paramedic
Council for Professional Development of the American Home Economics Association
Council on Social Work Education
National Accreditation Council for Environmental Health Curricula
National Association of Schools of Music
National Council for Accreditation of Teacher Education
National League for Nursing
North Carolina Board of Nursing
North Carolina Department of Public Instruction

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

Academy of Criminal Justice Sciences
American Association of Colleges for Teacher Education
American Association of Colleges of Nursing
American Association of Higher Education
American Association of State Colleges and Universities
American Council on Education
American Society of Allied Health Professions
Association for Theatre in Higher Education
Association for Continuing Higher Education  
Association of Governing Boards of Universities and Colleges  
College Entrance Examination Board  
Conference of Southern Graduate Schools  
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 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 Institute for Theatre Technology  

Academic Program

A varied academic program is offered by the university's five schools. Through the Graduate School, the university offers graduate degree programs in numerous major areas leading to the Master of Arts, Master of Science, Master of Business Administration, Master of Health Sciences, Master of Music Education, Master of Industrial Education, Master of Project Management, Master of Public Affairs, Master of Arts in Education, the Education Specialist and the Certificate of Advanced Study in Counseling. The programs leading to these degrees are listed in the Graduate School section of this catalog and complete information about them is available in the Graduate Catalog Issue of The Record.

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

The School of Applied Sciences - Bachelor of Science with majors in Child Development and Family Relations, Clinical Laboratory Sciences, Clothing Textiles and Merchandising, Criminal Justice, Electronics Engineering Technology, Emergency Medical Care, Environmental Health, General Home Economics, Health Information Management, Health Services Management and Supervision, Industrial Distribution, Industrial Technology Interior Design, Manufacturing Engineering Technology, Nutrition and Dietetics, and Nursing.

The School of Arts and Sciences - Bachelor of Arts with majors in Anthropology, Art, Chemistry, English, French, Geology, German, History, Music, Political Science, Radio and Television, Social Sciences, Sociology, Spanish and Speech, and Theatre Arts. The Bachelor of Arts with a major in Economics, offered in collaboration with the School of Business, is inactive status.

Bachelor of Fine Arts with majors in Art and Theatre.

Bachelor of Science with majors in Anthropology, Biology, Chemistry, Computer Science, Geography, History, Industrial Chemistry, Mathematics, Natural Resources Management, Physics, Political Science, Radio and Television, Social Sciences, Social Work, and Sociology.

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

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

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

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

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

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

The Academic Calendar

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

Western Carolina University Programs in Asheville

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

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

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

Most of the course requirements for the bachelor of science degree in criminal justice and health services management and supervision are offered through the WCU Programs in Asheville. Through interinstitutional agreements, a program is available to students in Asheville leading to the bachelor of science in nursing degree from Western Carolina University. Students enrolled in this program must first complete their junior year of study on the Cullowhee campus. Also, through an interinstitutional partnership with Asheville Buncombe Technical Community College, most of the course requirements for a bachelor of science degree in electronic engineering technology, industrial technology, and manufacturing engineering technology are offered.
Western Carolina University administers its programs in Asheville through a staff whose offices are located in Room 120 Karpen Hall on the campus of the University of North Carolina at Asheville. Additional information is available from Western Carolina University Programs in Asheville One University Heights/UNCA Asheville North Carolina 28804 3299 or by telephoning (704) 251 6642 251 6643 or 227 7423.

Western Carolina University Center in Cherokee

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

Hunter Library

The library contains more than 400,000 books and bound periodical volumes and one million units of microform. Approximately 2,000 serial subscriptions are received, including regional, national, and international newspapers. The annual addition rate of new materials is more than 15,000 items.

As a selective federal depository, the library holds more than 156,000 government documents and adds important items monthly. Of special interest is the North Carolina Documents Collection which houses publications generated by state government.

Hunter Library is also a map depository for the United States Geological Survey and the Defense Mapping Agency. The map room contains more than 104,000 sheet maps as well as atlases, satellite imagery, and aerial photographs.

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

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

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

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

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

Faculty Center for Teaching Excellence

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

Writing Center

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

Beginning with the writer's initial ideas, tutors can help with brainstorming, prewriting, drafting, revising, editing, and proofreading. By offering the writer workable strategies, the
tutors can move the student toward self sufficiency. In addition to the one-on-one tutorial help the center periodically offers mini courses or workshops tailored to specific problems exhibited by student writers.

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

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

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

Office of International Development The Office of International Development promotes international linkages for Western Carolina University. Particular emphasis is given to trade relations between western North Carolina 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, collects, and displays artifacts. It interprets the region's natural and cultural heritage through publications, exhibitions, and demonstrations. The center works with public schools in preparing programs for educational enrichment and provides an educational experience for university students through internships. Its essential objective is to promote public awareness of the rich traditions of the mountains.

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

Reading Center In conjunction with academic programs for the preparation of reading teachers and specialists, the Reading Center provides diagnostic and remedial services and reading improvement courses for children, college students, and other adults. Reading materials, programs, and equipment are displayed, demonstrated, and evaluated. The staff provides consulting services, conducts workshops and conferences, and provides a variety...
of reading services for public schools in the area. The center is located in Killian Building on the campus in Cullowhee.

**Developmental Evaluation Center** The Developmental Evaluation Center is a service agency for the seven counties of Cherokee, Clay, Graham, Haywood, Jackson, Macon, and Swain. Projects are variously funded by the North Carolina Division of Maternal and Child Health, the 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, counseling, early childhood education, medical record administration, nursing, psychology, social work, special education, and communication disorders.

**Speech and Hearing Center** The Speech and Hearing Center provides outpatient diagnostic treatment and consultative services for persons with known or suspected speech 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, its programs are partially supported by twenty-four (24) southeastern universities.

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

**Mountain Aquaculture Research Center** The center was officially established by the Board of Governors of the University of North Carolina in November 1988 to foster and conduct research and experimental developments to sustain productivity growth, and the competitive position of the aquaculture industry clustered in southern Appalachia. Funded initially with an institutional grant from the North Carolina Biotechnology Center, the program at Western Carolina University strives to involve staff from various segments of the university to develop collaborative and multidisciplinary investigations with primary and secondary industries allied with the intensive farming of freshwater fish and to cooperate with educational institutions and other agencies interested in the wise husbandry of the aquatic resources of western North Carolina. The center will also play a role in the development and enrichment of curriculum related to aquaculture and in the sourcing, adaptation, and diffusion of appropriate technologies.

**Center for Environmental and Energy Education** The Western Carolina University Center for Environmental and Energy Education is one of several similar centers in a Tennessee Valley Authority university network. The center identifies and coordinates the resources of this region in providing educational services addressing population, natural resources, and environmental changes.
Center for Mathematics and Science Education The Western Carolina Center for Mathematics and Science Education in the School of Education and Psychology is one of ten centers comprising the North Carolina Mathematics and Science Education Network. The purpose of the center and network is to improve mathematics and science instruction in public and private schools by providing instructional activities for teachers providing courses leading to certifications in mathematics and/or science and conducting basic research.

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

Computer Center The Computer Center serves both the administrative and academic computing needs of the university. The center is given direction and goals by an advisory committee consisting of faculty and administrators. The Computer Center has two Digital Equipment Corporation computers a VAX 4000/300 and a VAX 4000/500. These computers operate under the VAX/VMS operating system supporting batch and interactive computing simultaneously. There is a total of 312 terminal ports available. The two systems are linked together using Ethernet and DECnet. The VAX 4000/300 has 1,381 megabytes of disk storage and two 4 mm DAT tape drives. The VAX 4000/500 system has 6,000 megabytes of disk storage and one tape drive. Five printers can be switched between the systems. Software programming languages include Basic C, Fortran, Pascal, COBOL, and MACRO with DATATRIEVE as a common report retrieval language. Applications software is acquired as needed.

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

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

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

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

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

Continuing Education and Summer School

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

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

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

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

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

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

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

Vocational/Technical Instructor Project. Instructors in the North Carolina Community College system may earn a bachelor's degree through the Vocational/Technical Instructor Project. Degree requirements may be met by a combination of transfer credit, experiential learning credit, and WCU credit. Courses are offered at locations and times convenient for program participants. The project provides funds for tuition and fees for qualified vocational/technical instructors.
Summer School Programs for Youth  Under the leadership of various schools and departments a number of summer programs are available for young students. The Cullowhee Experience is designed to challenge the gifted and talented. The Legislators School provides leadership training for youth in grades 7-12 and Summer Ventures provides enrichment in the sciences and mathematics. A broad variety of physical and recreational programs are also offered.

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

Ramsey Regional Activity Center

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

Ramsey Center's multi-purpose design and excellent facilities provide for a wide variety of activities ranging from WCU basketball, major concerts, theater, and television productions, workshops, banquets, receptions, and conferences. A ticket office, racquetball courts, a weight room, and a 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 Administration. The office is the source of information about contract and grant possibilities and is the channel through which all faculty and staff proposals are submitted for university approval. They are then sent to the General Administration of the University of North Carolina and to the appropriate sponsoring agency. The staff assists faculty, staff, and students in the preparation of proposals including budget development.

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

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

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

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

**N C Center for the Advancement of Teaching**

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

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

Housing

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

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

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

Each room is furnished with single beds, study desks, chairs, dressers, and closets. Students provide their own pillows, bed linens, blankets, towels, lamps, wastebaskets, and ashtrays. They also may bring radios, record players, and television sets as long as outside antennas are not required. At least one television set connected to a central antenna is available in each hall. Cable television is available in public areas. Cable television service is also available in each room as an option to the student contracted individually with a commercial cable company serving the campus. Other facilities include vending machines, post office boxes, and coin-operated washers and dryers.

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

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

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

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

Residence Hall Contract: Each student residing in a residence hall signs a contract with the university for the regular academic year or any part of the year remaining when the student moves into the residence hall. The contract outlines the responsibilities of the student and the university and is a legally binding agreement. It may be cancelled by the student or the university only under conditions outlined in the contract.

Deposit: The $75.00 room reservation deposit serves to reserve a room for each successive semester until graduation or until the student leaves the residence halls. It also serves as a damage deposit. The deposit will be refunded after the last term in residence less an
administrative fee and damage charges if there are any Students should notify the housing office during their last term in residence so that the refund can be processed The refund and penalty schedules are included in the residence hall contract

Summer School Reservations To reserve rooms in the residence halls for a summer term students pay a $10.00 reservation fee for each session they plan to attend The fee is deducted from total expenses at the time of registration It is refundable if the student makes a request for refund to the housing office at least two weeks before summer registration

Housing for Married and Graduate Students Robertson Hall is available to married and graduate students It consists of 37 efficiency and 5 one bedroom apartments A limited number of other apartments ordinarily reserved for faculty and staff also may be available

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

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

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

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

Student Activities and Services

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

Voluntary associations of students on the campus are recognized as an important part of the educational process. More than one hundred recognized campus organizations provide students opportunities to explore their religious, political, professional, social or special interests and to be recognized for their academic and personal achievements

Student Government The Student Government Association (SGA) is an active, vital part of the university community Each student has the right to vote in all student elections and may participate in SGA by running for office or by applying for an appointive position The SGA sends voting members to committees of the Faculty Senate and the president of SGA is an ex officio member of the university's Board of Trustees
A K Hinds University Center  The University Center is a major division of the Office for Student Development, is the hub of campus activity. It houses the offices of the SGA and University Center staff, a ballroom, several meeting and conference rooms, an art gallery, a restaurant and snack bar, a television lounge, and billiard room. Four motel units and an efficiency apartment are available. Through functions such as cookouts, films, dances, concerts, canoe trips, and various other events, the center caters to the needs of the entire university community. Many activities are planned and organized by the students themselves through a program committee.

Recreation and Sports

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

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

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

Athletics: The university provides a full program of 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 tennis. The university is a member of the National Collegiate Athletic Association (NCAA) and the Southern Conference. A standing committee of the Faculty Senate is responsible for reviewing and recommending policy regarding intercollegiate athletics.

Health Services

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

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

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

A complete medical record is required of all students entering the university. Additional information for updating during the period of actual attendance may be requested. New students are required by North Carolina General Statute 130A 155 1 to have the following current immunizations: Diphtheria Pertussis Tetanus or Tetanus Diphthera measles (rubeola) rubella and polio. Evidence of the immunizations should be in the student's records at the time of registration. If this evidence is not present, the student will have 30 days to correct the deficiency. If the deficiency is not corrected in this time period, the student will not be allowed to continue to attend the university.

Health Insurance: An accident and hospitalization group insurance policy is available to students from an approved commercial agent at registration. The coverage is optional, but it is strongly recommended that all students have some form of insurance to cover the cost of medical treatment not available through the University Health Service. Health insurance coverage is mandatory for international students. More information is available from the Office for Student Development.
Mental Health Service  The Smoky Mountain Mental Health Center is a regional out patient diagnostic and treatment facility serving the university community  The services are available by appointment or on an emergency basis by telephoning 293 9281

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

Other Services and Facilities

New Student Orientation  The university sponsors a summer orientation program for all new students freshmen and transfers  Several sessions are held each summer and students may select the one they wish to attend  Faculty members administrators staff and student leaders conduct the program to acquaint new students with the academic 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

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

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

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

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

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

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

Laundry  Coin operated washers and dryers are provided in all residence halls for the use of the residents  Commercial coin operated laundries are located in Cullowhee and Sylva for use by the general public
Bus Service  The university provides a free shuttle bus service for students between Cullowhee and Sylva. This service is provided primarily for students without automobiles; however, students with automobiles are encouraged to use the service to conserve energy. Information about the schedule is available at the information desk in the University Center.

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

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

General Regulations and Safety Policies

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

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

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

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

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

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

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

Policy on Illegal Drugs

I Purpose

Western Carolina University is an academic community dedicated to the transmission and advancement of knowledge and understanding. The Board of Trustees is committed to the maintenance and protection of an environment in which students and faculty members may
responsible 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 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 of the North Carolina General Statutes 90-90, Schedule II of the North Carolina General Statutes 90-90 (including but not limited to heroin, mescaline, lysergic acid diethylamide, opium, cocaine, amphetamine, methaqualone) any student shall be expelled and any faculty member, administrator, or other employee shall be discharged.

B For a first offense involving the illegal manufacture, sale, or delivery, or possession with intent to manufacture sell or deliver of any controlled substance identified in Schedules III through VI of the North Carolina 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 of the North Carolina General Statutes 90-89 or Schedule II of the North Carolina 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 of the North Carolina 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.

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

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

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

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

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

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

Western Carolina University holds its charges to the minimum commensurate with the provision of needed services. The following schedule of fees due and payable at the beginning of each semester will be effective beginning with the fall semester of the 1992-93 academic year. The university reserves the right to alter any charges without prior notice upon direction from appropriate governing authorities.

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

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

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

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

Fees Per Semester

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<tr>
<td>with 21 meal plan</td>
<td>1947.50</td>
<td>1901.50</td>
</tr>
<tr>
<td>Out of state rate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with Declining Balance Standard Option</td>
<td>4813.50</td>
<td>4767.50</td>
</tr>
<tr>
<td>with Declining Balance Low Option</td>
<td>4758.50</td>
<td>4712.50</td>
</tr>
<tr>
<td>with 15 meal plan</td>
<td>4743.50</td>
<td>4697.50</td>
</tr>
<tr>
<td>with 21 meal plan</td>
<td>4783.50</td>
<td>4737.50</td>
</tr>
</tbody>
</table>

* Required fees include Health Services $70.00 Recreational and Cultural $62.00 Athletics $98 Athletic Facilities $16.00 University Center $64.50 Documents fee $2.00 Academic Computing Fee $11.00 Graduate Studies $20.00 These fees are tentative pending approval by the N C General Assembly.

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

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

<table>
<thead>
<tr>
<th>Hours Enrolled</th>
<th>Undergraduate</th>
<th></th>
<th>Graduate</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In State</td>
<td>Out-of-State</td>
<td>In-State</td>
<td>Out-of-State</td>
</tr>
<tr>
<td>1</td>
<td>$119 45</td>
<td>$828 45</td>
<td>$111 65</td>
<td>$820 65</td>
</tr>
<tr>
<td>2</td>
<td>148 90</td>
<td>857 90</td>
<td>133 30</td>
<td>842 30</td>
</tr>
<tr>
<td>3</td>
<td>178 35</td>
<td>887 35</td>
<td>244 95</td>
<td>1 662 95</td>
</tr>
<tr>
<td>4</td>
<td>207 80</td>
<td>916 80</td>
<td>266 60</td>
<td>1 684 60</td>
</tr>
<tr>
<td>5</td>
<td>237 25</td>
<td>946 25</td>
<td>288 25</td>
<td>1 706 25</td>
</tr>
<tr>
<td>6</td>
<td>356 70</td>
<td>1 774 70</td>
<td>398 90</td>
<td>2 525 90</td>
</tr>
<tr>
<td>7</td>
<td>386 15</td>
<td>1 804 15</td>
<td>420 55</td>
<td>2 547 55</td>
</tr>
<tr>
<td>8</td>
<td>415 60</td>
<td>1 833 60</td>
<td>442 20</td>
<td>2 569 20</td>
</tr>
<tr>
<td>9</td>
<td>534 05</td>
<td>2 661 05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>563 50</td>
<td>2 690 50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>592 95</td>
<td>2 719 95</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

<table>
<thead>
<tr>
<th>Service</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Admission Application Fee (one time only)</td>
<td>$20 00</td>
</tr>
<tr>
<td>Late Registration Fee</td>
<td>10 00</td>
</tr>
<tr>
<td>Cap Gown and Hood</td>
<td>obtained through University Supply Store</td>
</tr>
<tr>
<td>CLEP GRE NTE etc</td>
<td>fee set by Educational Testing Service</td>
</tr>
<tr>
<td>Cooperative Education Fee (work semesters only)</td>
<td>30 00</td>
</tr>
</tbody>
</table>

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

Board Plan

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

- Declining Balance Standard Option $600 00
- Declining Balance Low Option 545 00
- 21 Meal Standard Plan (3 meals/day in sequence 7 days/week) 570 00
- 15 Meal Standard Plan (any 15 meals in sequence Sun Sat) 530 00

*The declining balance meal plan is a dining program wherein students pay an advance deposit at the beginning of each semester from which purchases are deducted throughout the term. Students who choose this option are issued an encoded identification card to be used as a debit card for purchases at Brown and Dodson cafeterias, the Food Court, P G KATZ snack bar and the Top of the Stairs Restaurant. During the semester, additional prepayments in minimum increments of $50 00 may be made by any student with a declining balance account.
Commuting students have two additional options: a declining balance minimum prepayment of $50.00 or a 10 meal standard plan ($395) which provides any ten meals Monday through Sunday.

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

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

**Book Rental Plan**

Textbooks for courses numbered 100-499 are furnished to on-campus undergraduate students on a rental basis by the Book Rental Department of the bookstore. Students pay a flat fee of $50.00 each semester and are entitled to the adopted textbook used in each course for which they are registered. All books must be returned to the Book Rental Department at the end of each term. This plan does not provide notebooks, workbooks, paperbacks, manuals or supplemental books and materials but these are available for purchase at the bookstore. Students may buy textbooks at the used book price if they wish but this does exempt them from paying the rental fee. Further information about the Book Rental Plan can be found in the *Faculty Handbook*, Section 5.19.

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

Graduate students must purchase all their textbooks 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 residuary information.

**Initiative** Being classified a resident for tuition purposes is contingent on the student 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'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 residency 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 residuary acts accompanied by residuary intent.

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

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

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

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

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

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

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

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

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

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

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

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

Refund Policies

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

Students who reduce their course loads during the registration period for the semester as defined in this catalog but who continue to be enrolled in the university will have their tuition and fees adjusted 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. (See Refund policy in this catalog.)

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

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

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

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

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

**Financial Aid**

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

Students interested in applying for financial aid must complete the Free Application for Federal Student Aid (FAFSA). This must be submitted as soon as possible after January 1 of each year the student will attend Western Carolina University. The student 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

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

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

<table>
<thead>
<tr>
<th>Full Time Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>At completion of this semester</td>
</tr>
<tr>
<td>Total minimum credits</td>
</tr>
<tr>
<td>Minimum required QPR</td>
</tr>
</tbody>
</table>

To remain eligible for financial aid, a student must meet these minimum requirements.

Notification of Awards Notification of awards beginning with completed applications for aid received prior to March 31 will be made beginning May 1 and will continue thereafter. The processing time for applications is about eight weeks.

Types of Aid Three principle types of aid are available: (1) scholarships or grants awarded directly to the student that do not have to be repaid; (2) loans usually long term and low interest, to be repaid after the student leaves college; (3) employment, often 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 starts nine months after the student leaves school or drops below half time status. The interest rate is five percent.

Federal Stafford Loans These government subsidized loans are available to students through financial institutions. They are insured by a government or private guarantee agency and 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 $5,000 per year for the third through fifth years of undergraduate work. Graduate students may borrow up to $8,500 per year. There is a five percent origination fee with a variable interest rate based on the 91-day Treasury Bill plus 3.10% (capped at 9%). Repayment begins the day following expiration of a six-month grace period.
Federal PLUS (Parents) Loans These loans provide funds to parents to help meet the cost of education. They may borrow up to the cost of education per child minus other financial aid. There is a five percent origination fee with a variable interest rate on the based 52 week Treasury Bill plus 3 10% (capped at 10%) Interest starts upon disbursement of funds. Repayment begins the date of disbursement of funds. Borrowers may not have an adverse credit history.

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

Federal Unsubsidized Stafford Loan This is a new unsubsidized Stafford Loan Program providing loans to students after their demonstrated need has been met. The maximum amounts to borrow are the same as for the subsidized Stafford. However, this loan plus other financial aid may not exceed the cost of education. There is a 6.5% combined origination and insurance fee. The interest is the same as the subsidized Stafford except that the interest is capped at 11% and the borrower is responsible for accrued interest.

Loans for Study in Health, Science, and Mathematics The North Carolina State Education Assistance Authority (NCSEA) 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 20459, 3824 Barrett Drive Suite 304, Raleigh, N.C. 27619-0549, telephone (919) 571-4182.

North Carolina Four Year Teaching Fellows Program Established by the General Assembly, this program is designed to fully subsidize the college cost of up to 400 talented 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, N.C. 27612, telephone (919) 781-6833.

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

Nurse Education Scholarship Loan Program This scholarship loan program is based upon financial need and is made in combination with existing financial resources. A scholarship loan may be repaid through service in the state following completion of the nursing program or repayment in cash plus ten percent interest from the date of disbursement. A completed Financial Aid Form is required for consideration. For additional information, contact the Financial Aid Office.
The Nurse Scholars' Program Established by the North Carolina General Assembly this competitive merit-based scholarship loan program is available to North Carolina students of exceptional academic achievement and leadership potential who desire to enter the nursing profession. Applications for a NSP award may be made by individuals who have been admitted to a participating nurse-education program and who meet the minimal qualifications for selection. The North Carolina Nurse Scholars Commission selects 100 high school seniors for four-year scholarships at $5,000 per year and 25 upper-class recipients for $3,000 per year. A year of assistance may be repaid through a year of employment in a health care agency in North Carolina.

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

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

Wachovia Charitable Funds Bank Loan There are two separate accounts from which loans are available: The Thomas A. Case Student Loan Fund and the Lucius Lamer 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 5% on the unpaid balance and repayment begins within three months after the student terminates their enrollment. Applications and further information are available by contacting Wachovia Bank of North Carolina Charitable Funds, P.O. Box 3099, MC 31022, Winston-Salem, NC 27150.

Grants and Scholarships

Federal Pell Grants Eligibility for assistance under the Pell Program is based on financial need as determined by a formula of the U.S. Department of Education which is applied uniformly to all applicants. Awards range from $250 to $2,300 per academic year depending upon the cost of attendance. All undergraduates enrolled for six hours or more are eligible to apply.

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

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

Supplemental Educational Opportunity Grants This program provides funds through participating educational institutions to students with exceptional financial need who would be unable to enter or remain in an institution of higher education without such assistance.

North Carolina Student Incentive Grant Program Full-time undergraduate students who are legal residents of North Carolina may apply for grants based upon demonstrated financial need. Grants may not exceed $2,000 per academic year.
North Carolina Tuition Grants  Established by the General Assembly of North Carolina each grant covers tuition and is available to academically talented North Carolina students having need

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

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

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

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

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

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

Athletic Grants  Grants are made in accordance with regulations of the National Collegiate Athletic Association. For more information contact the director of athletics.

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

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

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

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

Albert Dudley Brewer Scholarships  These endowed scholarships supported by the Adelaide Louise Brewer Fund are endowed memorial provide assistance for students with impaired hearing. Renewal depends on satisfactory progress toward a degree.
F H Brown Family Scholarships  This endowment which honors the long time relationship of the F H Brown family with Western Carolina University provides awards to chemistry students. Selection is based on scholastic attainments and capabilities character and overall potential. Renewal depends upon satisfactory progress toward a degree.

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

Helen Ramsey Brown Scholarship Fund  This scholarship program provides financial support for students in arts and sciences. Contact the Dean of the School 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 if their current permanent residence is in McDowell County North Carolina.

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

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

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

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

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

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

The Diane Withrow Coyle Art Fund  This scholarship program established through the generosity of the family and friends of Diane Withrow Coyle supports WCU students who pursue drawing as a creative and formal art medium.

Crum Scholarship Fund  This endowed scholarship fund was established in honor of Joseph and Mabel Crum, former members of the WCU faculty. The fund provides support for worthy and deserving undergraduate students who are majors in mathematics or English. The awards are based on academic achievement and promise participation in various school activities and overall social and civic contributions. Awards are renewable.
Cullowhee School District Award  This award program provides funds for deserving young graduates of the Cullowhee school district who desire to attend WCU  Selection is based on achievement, participation in various school activities, overall social and civic contributions, and financial need.

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

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

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

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

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

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

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

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

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

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

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

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

Horatio A. and Adah G. Helder Scholarships  Graduates of public high schools in Haywood County who have financial need may receive scholarships to attend Western Carolina University. Each scholarship is renewable for four years. Contact a high school guidance counselor.
The History Department Scholarship Fund  Established by the faculty in the Department of History, these scholarship awards are for students planning to pursue a major in history. Consideration for scholarship will be based on merit.

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

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

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

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

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

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

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

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 NC art students are encouraged to apply.

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

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

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 School of Business. Contact the president of the organization.

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

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

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

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

The Dean Carroll Plemons Scholarship Fund  The fund has been established by the family of Dean Plemons 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 in memorial to a former student supports scholarships to worthy students who are active in the music program. Preference is given to students from Surry County who are in the band. Renewal depends on satisfactory progress toward a degree. Contact the Department of Music.

Bronce and Betty Ray Scholarships  These $1,000 renewable scholarships for students who live in the 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 who are majoring in music education. The scholarships are renewable based on satisfactory academic progress.

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

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 Hull 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 Silor Sloan and Georgia Neville Sloan Scholarships  Awards one to a junior and one to a senior in the School of Arts and Sciences are made on the basis of academic achievement and financial need. Preference is given to residents of Macon County NC.

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

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

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

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

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

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

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

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

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

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

Robert L. (Bob) Waters Leadership Fund  This graduate and undergraduate assistantship program in football provides support for students who have completed eligibility for participation in intercollegiate athletics. Contact the Department of Athletics.
Pi Kappa Alpha/Robert L Waters Scholarship Fund  This scholarship program is a memorial to Robert L Waters for his outstanding leadership at Western Carolina University and in the Zeta Xi Chapter Pi Kappa Alpha Fraternity. Recipients are selected on the basis of academic achievement, participation in school and community activities, demonstrated social and civic contributions, and financial need.

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

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

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

Employment

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

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

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

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

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

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

Applications

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

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

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

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

Undergraduate Admission

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

Freshman Students

Admission to Western Carolina University and placement into courses and programs are based upon a variety of factors including courses taken in high school, rank in class, SAT 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 Tests).

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

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

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

- 4 units of English
- 2 units of algebra
- 1 unit of geometry or advanced math
- 3 units of science including
  - 1 unit of a life or biological science 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 two categories of freshman admission to Western: honors admission and regular admission.

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

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

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

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

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

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

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

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

**Pre University Honors Program** This program enables high school students who have completed the junior year with superior academic records to begin work toward a university degree. Students who qualify may enroll in and earn credit for selected freshman courses. Full information is available from the Office of Admissions.

**Transfer Students**

Applicants must have official transcripts with statements of honorable dismissal submitted by all institutions formerly attended. The applicant must meet freshman admission requirements and submit an official high school transcript with SAT or ACT test results. Transfer applications should be submitted by July 1 for fall admission and at least 30 days prior to the beginning of spring or summer terms.

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

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

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

**Former Students**

Readmission of former students is not automatic. Undergraduates who were not enrolled at the university in the immediately preceding semester (excluding summer terms) must apply for readmission. Applications with all documents supporting the request for readmission must be submitted 30 days prior to the beginning of the term in which further enrollment is planned. Transcripts of work taken at any other colleges during the interim must be submitted. Former students who have attempted course work at another institution since their enrollment at Western 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 reevaluation and two-year rule policies in this catalog before applying.
Post Baccalaureate Students

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

International Students

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

Other Eligible Persons

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

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

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

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

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

Appeals of Admissions Decisions

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

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

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

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

Courses listed in the catalog are offered at times appropriate for maximum availability to students. Listings for each term 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 semester hours. A normal load is defined as 16 hours. The maximum load is 19 hours provided that no I or F grades were made the previous term. With a 3.0 GPA status the previous term, the maximum load is 21 hours. Any overload must be approved by the student's adviser and the appropriate administrators as indicated on the request and
approval form Twelve hours is the maximum that may be earned in experiential courses during a semester. Course load regulations for the summer session are published in the Summer School Catalog/Schedule.

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

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

Grading and Quality Point System*

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

*See Graduate Catalog Issue for the graduate grading system.

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

Incomplete At the instructor's discretion but only when there is a reasonable prospect that the student can pass the course by making up the work missed a student may be given an I grade for work not completed if the incompletion is unavoidable and not caused by the student's negligence. All incomplete grades must be removed and a grade of A, B, C, D, F, S, or U must be submitted to the Registrar. The work must be made up and a grade received by the registrar by the last day of classes of the next regular semester or the grade will become an F. A student may not re-register for the course until the I is removed or changed to an F.

The instructor is required to list the conditions to remove the I and send them to the department head. If the instructor is no longer employed by the university, the department head will remove the I upon completion of the stated requirements. In extenuating circumstances students should refer to the Academic Appeals Procedure section in THE RECORD.

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

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

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

Final Grade Changes When a grade other than Incomplete is reported officially by an instructor at the end of a term the grade is recorded and can be changed only if an error was
made in estimating or reporting it. The instructor will, with the approval of the department head, report the error in writing to the dean with a recommendation about the action to be taken. Only the instructor can change the grade in a course except as provided in the Incomplete grade policy. Any request by a student for a change in a final grade must be submitted to the instructor within thirty days after the mailing of the final grade report.

Withdrawal Policies and Procedures

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

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

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

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

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

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

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

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

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

Academic Appeals Procedure

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

If, after appealing to the instructor, department head, and dean, the student is still dissatisfied or suitable action has not been taken, the student may appeal to the Academic Problems
Committee This committee hears student grievances arising from academic matters and makes recommendations to the Office for Academic Affairs. A student who wishes to do so may appeal the vice-chancellor's decision to the chancellor. Information about the composition and procedures of the Academic Problems Committee is available in the Faculty Handbook or in the Office for Academic Affairs.

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

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

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

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

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

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

Academic Standing

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

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

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

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

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

**Academic Honors**

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

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

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

To be designated University Scholars students must have enrolled as freshmen and completed their entire undergraduate careers at Western Carolina University with a GPA of 3.9. Students who meet this requirement, except for courses taken with permission at other institutions as transients are eligible for designation as University Scholars.

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

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

**Retention Policy for Undergraduates**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Repeat Course Policy for Undergraduates**

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

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

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

**Academic Re-evaluation Policy**

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

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

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

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

Two-Year Rule Policy

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

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

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

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

Credit and Placement Policies

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

Transfer of Credit

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

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

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

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

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

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

Grades made in transferred courses are not considered in computing the GPA at Western 
Carolina University but transferred hours are added to earned hours and will affect the 
student’s overall academic standing A student may not expect to have the repeat course 
policy applied on the basis of courses completed at other institutions 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 WC

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

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

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

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

English Proficiency Policy Students are certified proficient in English as a corollary of the satisfactory completion of the 
freshman composition courses (ENGL 101 and 102) Students who receive transfer credit 
for ENGL 102 should take the English Proficiency Examination in their first subsequent 
semester at the university
Students may not repeat the examination and examinations taken at other institutions are not accepted in lieu of the requirement. Students who fail the examination and any other undergraduates who receive two composition condition marks are required to enroll in ENGL 300 in the semester immediately following. A student may choose to enroll in ENGL 300 instead of taking the examination and meet the proficiency requirement by passing the course. The credit earned in ENGL 300 may be applied as general elective credit.

Composition Condition Marks: A student whose written work in any course fails to meet acceptable standards will be assigned a composition condition (CC) mark by the instructor. Any undergraduate who has attempted more than 12 hours at the university and who receives CC marks in two courses during any 12-month period will be required to enroll in ENGL 300 in the first term following notification of receipt of two CC marks and will be assigned an appropriate corrective experience.

Placement in Freshman English

Based on the scores achieved on writing samples taken during summer orientation sessions, students will be placed in the appropriate composition section (ENGL 100, 101, or 102). Honors: Students with exceptionally high scores on the writing sample may place out of Freshman English altogether, receiving six hours of credit toward graduation. Students placing into ENGL 102 Honors will receive 3 hours of credit upon successful completion of the course as well as an additional 3 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 3 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.

Placement in Freshman Orientation Courses

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

Advanced Placement

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

Modern Foreign Languages: Placement examinations are administered during the summer orientation sessions and at the beginning of each semester and must be taken by any student desiring to be placed in the second or higher course of a foreign language. Any student placed in the second or higher course in French, German, or Spanish who passes that course with a grade of C or better will receive up to 6 credits for the courses bypassed. This may include
the general education course 101 Additional information can be obtained from the department or from the CAP Center adviser.

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

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

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

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

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

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

Credit by Examination

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

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

The fee for scheduling a course on a credit by examination basis is $15.00. No fee will be assessed if the examination is being used to validate transfer credits or when the student is enrolled full-time during a fall or spring semester.

The College Level Examination Program

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

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

Credits earned through CLEP will be posted on the transcript but no grades are recorded The student’s GPA will not be affected Duplicate credit is not awarded in any case CLEP credits earned at other institutions will be evaluated in the same manner as the equivalent courses at those institutions The same policies and procedures used in evaluating the applicability of other advanced standing and transfer credits toward a degree will be applied

Credit for Experiential Learning

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

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

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

Credit for Veterans of Military Service

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

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

Class Attendance Policy

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

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

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

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

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

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

**Graduation and Certification**

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

Undergraduate students should begin the procedure immediately after 90 hours have been earned. Specific deadlines for filing degree application are given in the Academic Calendar.

**Certification and Licensure** Completion of a bachelor's degree in teacher education, nursing, or health sciences qualifies a student to seek the appropriate certification or licensure. Information about the policies and procedures is available from the dean of the appropriate school. Procedures for teacher certification are found on page 112.

**Graduation Attendance** Attendance at graduation is required of candidates for graduation. A diploma may be granted in absentia only with approval of the vice-chancellor for academic affairs or his designee.
Military Commissioning  Successful completion of the ROTC curriculum and recommendation for commissioning from the professor of Military Science qualifies students upon graduation to be offered commissions as second lieutenants in the United States Army, Army Reserve, or Army National Guard. Information about policies and procedures for obtaining commissions is available in the Department of Military Science.
DEGREE PROGRAMS AND REQUIREMENTS

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

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

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

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

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

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

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

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

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

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

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

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

**Academic Advisers** The major selected by each student will determine the assignment of a faculty member for academic advising. Students who do not know the names of their advisers should contact the head of the major department or the CAP Center. To be assigned an adviser or arrange for a change of adviser, a declaration or change of major/adviser form must be completed. The major selected by the student also determines the major field-of-study name to be entered on all applicable 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: the only one Bachelor of Arts degree, one Bachelor of Fine Arts degree, one Bachelor of Science degree, one Bachelor of Science in Business Administration degree, one Bachelor of Science in Education degree and one Bachelor of Science in Nursing degree.

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

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

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

General Education Requirements

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

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

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

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

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

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

Foundations Areas, 16 hours

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

*See Graduate Catalog Issue for graduate degree requirements.
Thinking, Reasoning, and Expressing, 3 hours
AST 201 (302) Cosmos 3 hours
BIOL 107 (307) Classical Experiments in Biology 3 hours
ECON 108 (313) The Perfect Society 3 hours
LAW 101 (321) Legal Thought, Reasoning and Implications 3 hours
PHIL 201 (300) Logic and Its Uses 3 hours
PHYS 110 (310) Physical Science 3 hours
PSY 105 (305) Thinking Reasoning and Expression 3 hours
PSOC 105 (308) Current Political and Social Issues 3 hours
STA 110 (310) Persuasive Thinking Reasoning and Expression 3 hours

Computer Literacy, 1 hour
CS 101 Computer Concepts and Issues 1 hour
This requirement must be met by the end of the sophomore year unless the student transferred to the university as a junior or senior. The requirement is waived if the student passes CHEM 135H, CS 150, CIS 251, CIS 256, or MET 160 by the end of the sophomore year. The requirement may be waived for a junior or senior transfer student who passes BIOL 232, BIOL 333, CHEM 454, CJ 352, ENGL 401, 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.

Leisure and Fitness, 3 hours
The courses taken must include 2 hours selected from health or physical education and 1 hour of electives
ART 120 Beginning Drawing and Sketching 1 hour
ART 121 Beginning Painting 1 hour
ART 123 Off Loom Fiber Works 1 hour
ART 124 Beginning Ceramics 1 hour
ART 125 Introduction to Calligraphy 1 hour
ART 126 Image Making for Nonartists 1 hour
BIOL 108 Recreational Botany 1 hour
HEAL 120 Personal and Community Health 2 hours
MUS 110 Introduction to Instrumental Ensembles 1 hour
MUS 111 Introduction to Vocal Ensemble 1 hour
MUS 112 Introduction to Piano 1 hour
MUS 113 Introduction to Singing 1 hour
MUS 114 Introduction to Recorder 1 hour
MUS 116 Introduction to Dulcimer 1 hour
MUS 117 Introduction to Guitar 1 hour
PE 102 Beginning and Advanced Beginning Swimming 1 hour*
PE 103 Intermediate and Advanced Swimming and Aquatic Sports 1 hour*
PE 104 Lifesaving 1 hour*
PE 105 WSI Training Course 1 hour*
PE 106 Scuba Diving 1 hour*
PE 107 Synchronized Swimming 1 hour*
PE 108 Canoeing 1 hour*
PE 113 Hiking 1 hour
PE 114 Jogging 1 hour
PE 115 Weight Training 1 hour
PE 116 Slimastics 1 hour
PE 117 Wrestling 1 hour
PE 118 Aerobic Dance 1 hour
PE 122 Beginning Tennis 1 hour*
PE 123 Beginning Golf 1 hour*
PE 124 Handball 1 hour
PE 125 Racquetball 1 hour
PE 126 Bowling 1 hour
PE 127 Badminton 1 hour
PE 129 Archery 1 hour
PE 202 Casting 1 hour
PE 203 Gun Handling 1 hour
PE 204 Snow Skiing 1 hour
PE 205 Modern Dance and Choreography 1 hour
PE 206 Folk and Square Dancing 1 hour
PE 207 Fencing 1 hour
PE 209 Advanced Tennis 1 hour*
PE 210 Advanced Golf 1 hour*
PE 214 Tumbling and Rebound Tumbling 1 hour
PE 215 Gymnastic Apparatus 1 hour
PE 223 Soccer and Basketball 1 hour
PE 224 Field Hockey 1 hour
PE 225 Volleyball and Softball 1 hour
PE 226 Tag Football 1 hour
PE 227 Track and Field 1 hour
PE 228 Adaptive Physical Education 1 hour
PE 230 Ice Skating 1 hour
STA 102 Theatre Production Stagecraft 1 hour
STA 103 Theatre Production Costume 1 hour

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

Perspectives Areas, 25 hours

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

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

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

    Courses in two different sciences are required. The courses selected must include one course with a lab. PHYS 105 may be taken only as a 4 hour course including both lecture and lab. All of the other courses may be taken with the lab for 4 hours credit or without the lab for 3 hours credit. However, a student must be enrolled in the lecture to take the lab for the course.

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

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

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

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

Only 3 of the 6 credit hours earned in FREN, GER, SPAN 110 apply to general education. The remainder apply to program, major or elective hours outside of general education.

Programs of Study

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

Degree Programs

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

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<tr>
<th>Undergraduate Major</th>
<th>School</th>
<th>Degree</th>
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<td>Accounting</td>
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<td>B S B A</td>
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<tr>
<td>Anthropology</td>
<td>A&amp;S</td>
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<tr>
<td>Art</td>
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<td>E&amp;P</td>
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<tr>
<td>Biology</td>
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<td>Social Sciences</td>
<td>A&amp;S</td>
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<td>Social Work</td>
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<td>Spanish</td>
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<td>Special Studies</td>
<td>E&amp;P</td>
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Speech and Theatre Arts
(Inactive Status) B S Ed ONLY
Sport Management
Theatre
Therapeutic Recreation

A&S       B A
E&P       B S Ed
E&P       B S
A&S       B F A
E&P       B S

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 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 Council Honor 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 by the departmental school, and university levels. Responsibility for the administration of and academic advisement in the program is assigned to the several departments and schools depending upon the nature of each program.

Study Abroad
As a part of its activities in international education the university offers several programs of study in foreign countries. Internships in American schools for student practice teachers are arranged on demand in various locations in Latin America including Colombia, Central America and the West Indies. A liberal arts program is offered in London and an archeological program is offered in Yucatan. Other programs are announced each year. Inquiries about student teaching opportunities should be directed to the director of field experiences and teacher placement in the School of Education and Psychology. Inquiries about any other programs should be directed to the director of international instructional programs. Information about Study Abroad opportunities through other institutions is available at the CAP Center.

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

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

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

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

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

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

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

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

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

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

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

**Cooperative Transfer Agreements with Community Colleges**

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

**Cooperative Program in Agriculture and Life Sciences**

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

Agricultural economics, agricultural business management, agronomy, animal science, biological and agricultural engineering, biochemistry, biological sciences, botany, conservation, fisheries, and wildlife sciences, food science, horticultural science, medical technology, pest management, poultry science, applied sociology, zoology, and selected pre-professional programs. For further information, contact the Program Coordinator in the Natural Resources Management Program.

**Cooperative Program in Forestry**

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

During the freshman year students should select one of four specialty areas of the program: (1) Forestry, (2) Wood Science and Technology, (3) Pulp and Paper Science and Technology, (4) Recreation Resources Administration. The courses to be pursued for each area are available from the program coordinator in the Natural Resources Management Program.

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

**Experiential Programs**

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

**Cooperative Education Program**

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

**Internships and Practica**

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

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

**Vocational-Technical Programs**

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

**Community-Oriented Regional Education Program**

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

**In Service Programs**

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

**Army Reserve Officers' Training Corps**

The Army ROTC unit at Western Carolina University is open to qualified men and women. Upon graduation in one of the university's regular degree programs, students successfully completing the program will be commissioned second lieutenants in the United States Army 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.
SCHOOL OF APPLIED SCIENCES

J Dale Pounds Dean
Noelle L. Kehrberg Associate Dean

The mission of the School of Applied Sciences is to offer quality education in a variety of professional careers. In fulfilling this role, the school provides undergraduate and graduate educational programs in Cullowhee and Asheville.

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

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

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

**Admission to Health Sciences and Nursing Programs** Declaration of a major in the Health Sciences or Nursing departments does not guarantee admission to the junior or 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. An interview is required. Admissions decisions are announced in writing to applicants by March 15. An accelerated curriculum is available for associate degree medical laboratory technicians which normally allows completion of degree requirements in two years.

**Emergency Medical Care** 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 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. Applications must be received by February 15, and applicants will be
notified of the admission decision by March 15. Transfer students will be admitted with provisional status for one semester. Students admitted to the professional sequence will be required to maintain a GPA of 2.0 in each course in the major and in the emphasis area.

**Health Information Management** Students must have completed 59-60 semester hours of college work before admission including all general education course requirements as well as BIOL 291/292. To be eligible to apply, a GPA of 2.0 is required. However, application does not assure acceptance. Students must earn a grade of C or above in each professional course in the major to remain in the program.

**Health Services Management and Supervision** Application is limited to transfer students who hold an allied health credential and an associate degree. Students in nursing, clinical laboratory sciences and health information management are not eligible for admission except as candidates for a second bachelor's degree. A 2.0 GPA in each course in the major and in the discipline area is required of admitted students.

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

**DEPARTMENT OF CRIMINAL JUSTICE**

*Noelle Kehrberg, Acting Head*

*E Davis T Ho W Hyatt L Morarty*

**Major in Criminal Justice, B.S. Degree**

General education 41 hours

Program requirements 3 hours  PSY 250

The major requires 54 hours as follows:

- CJ 250 The Criminal Justice System 3 hours
- CJ 252 The Communication Process in Criminal Justice 3 hours
- CJ 311 The Juvenile Justice Process 3 hours
- CJ 320 The Law Enforcement Process 3 hours
- CJ 330 The Judicial Process 3 hours
- CJ 340 The Corrections Process 3 hours
- CJ 350 Criminal Justice Theory 3 hours
- CJ 352 Criminal Justice Planning 3 hours
- CJ 404 Substantive Criminal Law 3 hours
- CJ 410 Victimology 3 hours
- CJ 482 Senior Directed Research 3 hours

PSC 302 or 303 or 304 or 411 Problems and Policies of American Government or State and Local Government or Public Administration or Civil Rights and Liberties 3 hours

PSY 310 or PSY 470 Social Psychology or Abnormal Psychology 3 hours

SOC 350 or 354 Deviant Social Behavior or Social Problems 3 hours

Criminal Justice upper division electives 12 hours with no more than 3 hours from CJ 389, 483 and no more than 3 hours from CJ 480

General electives (30 hours) including at least 3 hours at the junior/senior level are required to complete the program. Students are urged to plan in consultation with their faculty adviser an elective program that will lead to competency in a secondary area.
Minor in Criminal Justice

The minor requires 18 hours including CJ 250 and 15 hours of electives approved by the department head.

DEPARTMENT OF HEALTH SCIENCES

Barbara Lovin Head

T Connelly N Cook B Cosper W Foegelle T Justice N Kehrberg J Palmer G Smith D Southern C Stevens E Story D Trigg

Major in Clinical Laboratory Sciences, B.S Degree

General education 41 hours

Program requirements 31 hours 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 Hematology 3 hours
CLS 304 Immunology 3 hours
CLS 305 Clinical Parasitology 2 hours
CLS 306 Immunohematology 4 hours
CLS 307 Medical Mycology 2 hours
CLS 308 Advanced Hematology 3 hours
CLS 309 Clinical Biochemistry 3 hours
CLS 310 Principles of Clinical Precepting 1 hour
CLS 406 Laboratory Management 2 hours
CLS 485 486 487 488 489 Clinical Practicums 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 Emergence Care 3 hours
EMC 430 Special Needs Patients 2 hours
EMC 483 Clinical Practicum II 4 hours
EMC 484 Clinical Practicum III 3 hours
EMC 485 MICU Practicum 3 hours
HSMS 320 Human Resource Management in Health Care Agencies 3 hours
HSMS 340 Perspectives in Health Care 3 hours
HSMS 450 Financial Management in Health Care 3 hours
HSMS 493 Special Problems in Health Care Management 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care 3 hours
HSCC 370 Introduction to Pharmacology 3 hours
PSY 460 Crisis Intervention 1 hour
ACCT 161 Accounting for the Non Business Major 3 hours
MGT 300 Introduction to Management 3 hours
MGT 306 Behavioral Science in Organizations 3 hours

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

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

General education 41 hours

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

The major requires 64 hours as follows
Preprofessional courses 16 hours CHEM 133 135 136 BIOL 413 414
HSEH 230 Introduction to Environmental Health 3 hours
HSEH 310 Water Supply and Waste Water Treatment, 4 hours
HSEH 320 Shelter Environment, 4 hours
HSEH 330 Food and Milk Control 4 hours
HSEH 386 Field Practicum in Environmental Health 3 hours
HSEH 440 Air Quality Control 4 hours
HSEH 457 Industrial Hygiene 3 hours
HSEH 460 Environmental Health Problems 1 hour
HSEH 470 Epidemiology 3 hours
HSEH 475 Environmental Program Administration 3 hours
HSEH 483 Environmental Health Internship 3 hours
GEOG(GEOL) 305 Hydrology and Soil Analysis 4 hours
Designed emphasis area (9 hours) in environmental health environmental science industrial
safety or food science

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

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

General education 41 hours

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

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

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

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

General education  41 hours

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

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

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

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

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

**Major in Nutrition and Dietetics, B.S Degree**

General education  41 hours

Program requirements  11 hours  CHEM 132  133  PSY 250

The major requires 57 58 hours as follows
ND 132 Nutrition for Everyday Living  3 hours
ND 330 Human Nutritional Needs  3 hours
ND 334 Nutritional Applications  3 hours
ND 433 Methods in Human Nutrition and Foods  3 hours
ND 434 Experimental Methods in Foods  4 hours
ND 436 Advanced Human Nutrition  4 hours
ND 437 Diet Therapy  3 hours
ND 439 Introduction to Professional Practice  3 hours
FSM 231 Food Science  4 hours
FSM 333 Quantity Foods  3 hours
FSM 430 Food Systems Management I  3 hours
FSM 432 Food Systems Management II  3 hours
BIOL 292 Human Anatomy and Physiology  4 hours
BIOL 413 or 313 or HSCC 260 Principles of General Microbiology  2 hours or Microbiology
in Health and Nutrition or Etiology of Infectious Diseases  3 hours
MATH 170 Applied Statistics or PSY 251 Research Methods I 3 hours
MGT 300 Introduction to Management, 3 hours
HE 317 Teaching Methodology 3 hours
CDFR 261 Dynamics of Marriage and Family Living 3 hours

General electives (18–19 hours) including at least 10–13 hours at the junior senior level are required to complete the program

Minor in Nutrition and Dietetics

The minor requires 18–22 hours including FSM 231 ND 330 and 12–16 hours selected from junior senior level courses in Food Service Management or Nutrition and Dietetics

DEPARTMENT OF HUMAN ENVIRONMENTAL SCIENCES

Davia Allen Head

J Baldwin L Cowan J Dowell J Hall T Safrit S Skinner M Yops J Zhao

Major in General Home Economics, B S Degree

General education 41 hours

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

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

Major in Child Development and Family Relations, B S Degree

General education 41 hours

The major requires 64 hours including the 6 hour core (HE 270 410) and the following
CDFR 261 Dynamics of Marriage and Family Living 3 hours
CDFR 361 The Child Development Center Environment 3 hours
CDFR 362 Methods for Child Development Centers 3 hours
CDFR 363 Child Development 3 hours
CDFR 364 Survey of Human Development 3 hours
CDFR 463 Infancy 3 hours
CDFR 464 Parent Involvement 3 hours
CDFR 465 Day Care Management 3 hours
CDFR 466 Child Development Methods II 3 hours
CDFR 467 Parent Education 3 hours
CDFR 468 Families Organization and Function 3 hours
CDFR 469 Family Gerontology 3 hours
CDFR 483 484 485 Internship 3 hours each course
CDFR 496 Seminar in Child Development, 1 hour
ND 330 Human Nutritional Needs 3 hours

Related electives (9 hours) approved by the adviser

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

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

General education 41 hours

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

The major requires 54 hours including the 6 hour core (HE 270 410) and the following

CTM 140 Fashion Analysis 3 hours
CTM 141 Clothing Selection and Construction 3 hours
CTM 242 Textiles 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 343 Tailoring 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 Apparel and Home Furnishing Product Analysis 3 hours
CTM 446 Principles and Techniques of Fashion Retailing 3 hours
CTM 483 484 Internship 3 hours each course

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

**Major in Food Service Management, B.S Degree**

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

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

General education 41 hours

The major requires 46 hours including the 6 hour core (HE 270 410) and the following

ND 231 Food Science 4 hours
FSM 333 Quantify Foods 3 hours
CTM 141 Clothing Selection and Construction 3 hours
CTM 242 Textiles 3 hours
HE 311 Home Economics Curriculum and Materials 3 hours
HE 321 Family Finance 3 hours
ND 330 Human Nutritional Needs 3 hours
IDSN 153 Introduction to Interior Design 2 hours
IDSN 253 Space Planning and Color 4 hours
CDFR 261 Dynamics of Marriage and Family Living 3 hours
CDFR 363 Child Development 3 hours

Guided electives 6 hours

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

General education 41 hours

Program requirements 12 hours ART 136 or 137 any art course numbered from 233 to 273 ART 131 and CTM 242

The major requires 62 hours including the 6 hour core (HE 270 410) and the following
IDSN 153 Introduction to Interior Design 2 hours
IDSN 253 Space Planning and Color 4 hours
IDSN 254 Perspective Drawing 4 hours
IDSN 351 Lighting Design for Interiors 3 hours
IDSN 353 Residential Design 4 hours
IDSN 355 History of Interiors and Furnishings I 3 hours
IDSN 356 Methods and Materials of Interior Design 3 hours
IDSN 357 Contract Design I 4 hours
IDSN 358 History of Interiors and Furnishings II 3 hours
IDSN 456 Contract Design II 4 hours
IDSN 458 Professional Practice in Interior Design 3 hours
IDSN 459 Portfolio Review 1 hour
IDSN 483 Internship 3 hours
IET 342 Construction Processes 3 hours
IET 350 Technical Illustration 3 hours
IET 351 Architectural Drafting and Design 3 hours
IET 352 Furniture and Architectural Drafting and Design 3 hours
MET 410 Computer Drafting 3 hours

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

Minor in Child Development and Family Relations

The minor requires 24 hours including 261 361 363 364 463 464 467 468

Minor in Clothing and Textiles

The minor requires 21 hours including 140 141 242 340 343 344 441

Minor in Family Services

The minor requires 21 hours including CDFR 261 364 464 467 469 HE 321 ND 330

Minor in Fashion Merchandising

The minor requires 21 hours including CTM 140 242 245 246 346 347 and 441 or 446

Minor in Food Service Management

The minor requires 21 hours including 130 231 333 430 432 ND 330 and a 3 hour junior senior elective selected from FSM 389 nutrition and dietetics management or food service management

Minor in General Home Economics

The minor requires 20 hours including 12 hours selected from ND 231 CTM 242 CDFR 261 HE 321 359 and 8 hours of electives

Minor in Interior Design

The minor requires 23 hours including 153 253 254 357 CTM 242 ART 131 132
DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY

George DeSan Head


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 56 hours as follows
IET 150 Engineering Graphics 4 hours
CS 150 Computer Programming I 4 hours
MET 366 Manufacturing Materials 3 hours
EET 231 Circuit Analysis I 4 hours
EET 232 Circuit Analysis II 4 hours
EET 311 Solid State Devices 4 hours
EET 312 Analog Integrated Circuits 4 hours
EET 321 Digital Integrated Circuits I 4 hours
EET 322 Digital Integrated Circuits II 4 hours
EET 341 Advanced Circuit Analysis 3 hours
EET 431 Microprocessor Fundamentals 4 hours
EET 432 Microprocessor Applications 4 hours
EET 451 Control Systems 3 hours
EET 462 Communication Systems 3 hours
EET 478 Senior Design Project Proposal 1 hour
EET 479 Senior Design Project 3 hours

General Electives (9 hours) at the junior senior level are required to complete the program

Major in Industrial Distribution, B.S Degree

General education 41 hours

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

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

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

General education 41 hours

Program requirements 13 hours  MATH 130  144  PHYS 130  ECON 231

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

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

Major in Industrial Arts Education, B.S Ed Degree

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

Major in Manufacturing Engineering Technology, B.S Degree

General education 41 hours

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

This program accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology Inc requires 55 hours as follows

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

General electives (5 hours) are required to complete the program
Major in Occupational Education for Trade and Industry, B.S. Ed. Degree
This program is on inactive status and no new students are being enrolled.

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

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

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

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

DEPARTMENT OF MILITARY SCIENCE
John A. DeFede, Head
T. Allison, J. P. Fletcher, B. Colgan

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 the services and officers of the Public Health Service or National Oceanic and Atmospheric Administration are not eligible for enrollment in the basic or advanced courses. Students with two or more years of high school ROTC training are eligible for advanced placement as determined by the professor of military science. Veterans who have completed one year of active duty and who received an honorable discharge may enter the advanced course. Students interested in completing the program in less than four years should consult the head of the department.

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

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

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

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

DEPARTMENT OF NURSING

Vivian Deitz, Head

T. Barriiger M Carlyle C Gestier J Glasscock M Haas V Hall C Hill J Howe S Jacques A Johnson B Kruse E Simmons Rowland, B Smith C Stephens

Major in Nursing, BSN Degree/Generic Curriculum Option

General education 41 hours

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

The major requires 53 hours as follows

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 BIO1 292 CHEM 132 133 HSCC 260 PSY 250 or approved substitute

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

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

Clifford R Lovin  Dean

J C Alexander Jr  Associate Dean

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

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

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

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

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

DEPARTMENT OF ART

Robert Godfrey  Head

R Borge B Buchanan, L Budahl J Byrd C Griffin J Jicha L Petrovich Mwanki J Smythe J Thompson

Major in Art, BFA Degree

General education 41 hours

Program requirements 3 hours PHIL 310

The major requires 63 hours as follows:

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

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

Concentration (24 hours) selected from Studio Courses in no more than two areas selected from painting/drawing, printmaking, sculpture, ceramics, and photography to include at least 18 hours at the junior/senior level.
Graphic Design  ART 370  371  374  474  475  and 483 or 389 and 9 hours selected from photography  graphic design  and illustration at the junior senior level
General electives (21 hours) including at least 12 hours at the junior senior level are required to complete the program

Major in Art, B.A. Degree
General education  41 hours

Program requirements  6 hours  MFL 231  232 or 240
The major requires 36 hours as follows
131 Drawing I  3 hours
132 Two Dimensional Design  3 hours
136  137 Art History Survey I II  6 hours
PHIL 310 Philosophy of Art  3 hours
Studio emphasis (21 hours) including at least 12 hours at the junior senior level or an art history emphasis to include 15 hours in junior senior art history courses and 6 hours of art electives

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

Major in Art, B.S.Ed Degree
General education  41 hours

Program requirements  3 hours  STA 250
The major requires 54 hours as follows
131 Drawing I  3 hours
132 Two Dimensional Design  3 hours
136  137 Art History Survey I II  6 hours
142 Three Dimensional Design  3 hours
263 Introduction to Art Education  1 hour
363 Art for Children  2 hours
367 History and Philosophy of Art Education  3 hours
416 Contemporary Art History  3 hours
463 Art Education Planning Materials and Methods  3 hours
3 hours art history electives at the junior senior level
18 hours art studio  233  234  241  251  270  372
6 hours art studio electives selected as 300-or 400 level courses in the same studio discipline

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

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

ARTS AND SCIENCES INTERDISCIPLINARY PROGRAMS
Clifford R Lovin Dean

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

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

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

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

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

DEPARTMENT OF BIOLOGY
Roger H 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 37 hours CS 150 151 250 262 MATH 270 375 310 PHYS 130 131 and 8 hours of junior senior biology electives.
Horticulture  38 hours  8 hours selected from BIOL 413 414 415 451 455 and up to 30 hours in horticulture courses accepted in transfer with the approval of the department head. Horticulture courses are not taught at Western Carolina University.

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

Parks and Recreation Management  35 hours  PRM 150 250 350 370 440 460 483 484 495 and 12 hours of junior senior biology electives.

Preprofessional  28 hours  CHEM 241 242 271 PHYS 130 131 and 12 hours of junior senior biology electives.

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

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

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

Major in Biology, B S Ed Degree

General education  41 hours

Program requirements  11 hours  MATH 130 140 STA 250

The major requires 46 hours as follows:

130 131 General Botany and General Zoology  8 hours
232 General Ecology 3 hours
242 Genetics and Evolution 3 hours
311 Animal Physiology 2 hours
315 Introduction to Plant Physiology 1 hour
333 Cell and Molecular Biology 3 hours
CHEM 135 136 General Chemistry 8 hours
PHYS 130 131 Introductory Physics 8 hours

Biology electives (8 hours) at the junior senior level.

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

Minor in Biology

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

DEPARTMENT OF CHEMISTRY AND PHYSICS

Richard Berne  Head


Major in Chemistry, B A Degree

General education  41 hours

Program requirements  22 hours  MATH 130 or 146 and 140 PHYS 130 131 MFL 231 232 or 240.
The major requires 35 hours as follows
135  136 General Chemistry  8 hours
241  242 Organic Chemistry I II  6 hours
271 Chemical Techniques  2 hours
321 Inorganic Chemistry  3 hours
370 Analytical Spectroscopy and Chromatography  3 hours
371  372 Chemical Dynamics and Chemical Synthesis  4 hours
432 Instrumental Analysis  3 hours
451 Biophysical Chemistry  4 hours
495 Seminar  2 hours

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

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

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

General education  41 hours

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

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

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

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

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

**Major in Industrial Chemistry, B.S Degree**

General education  41 hours

Program requirements  22 hours  STA 250  MATH 130  140  PHYS 130  131  ECON 130

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

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

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

General education  41 hours

Program requirements  14 hours  MATH 145  146  CHEM 135  136

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

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

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

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

General education  41 hours

Program requirements  8 hours  MATH 130  140

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

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

Biology electives (10 hours) at the junior senior level

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

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

Professional education sequence  28 hours (for each option)

General electives  1-4 hours

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

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

DEPARTMENT OF COMMUNICATION AND THEATRE ARTS

*Lawrence Hill  Head*


Major in Speech and Theatre Arts, B A Degree

General education  41 hours

Program requirements  6 hours MFL 231 232 or 240

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

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

General education 41 hours

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

Electives (6 hours) selected from 330 335 338
Concentration (12 hours) selected from
Acting and Directing 240 340 345 441 450 451 RTV 445
Design 330 or 355 or 338 430 435 438 470

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

Major in Radio and Television, B.A. Degree

General education 41 hours

Program requirements 6 hours MFL 231 232 or 240

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

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

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

General education 41 hours

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

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

Major in Speech and Theatre Arts, B.S Ed Degree
This program is on inactive status. No new students are being enrolled.

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

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

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

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

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

DEPARTMENT OF ENGLISH
J Karl Nicholas Head

Major in English, B.A Degree
General education 41 hours
Program requirements 6 hours MFL 231 232 or 240
The major requires 39 hours as follows
251 Survey of English Literature I 3 hours
252 Survey of English Literature II 3 hours
330 Introduction to Literary Interpretation 3 hours

Concentration (30 hours) selected from
Literature 12 hours selected from ENGL 361 or 362 420 431 440 441 451 470 3 hours
selected from ENGL 311 312 412 415 498 and 12 hours of junior senior English
courses 6 of which must be literature
Writing and Editing  ENGL 303 389 or 483 and 497 15 hours selected from ENGL 305
306 307 308 309 312 400 401 405 493 JOUR/RTV-140 301 JOUR 303 304 393
401 403 420 and 6 hours selected from junior senior English literature courses
Journalism  JOUR/RTV 140 301 302 401 420 JOUR 389 or 483 6 hours selected from
ENGL 306 307 312 JOUR 303 304 393 402 403 414 and 6 hours selected from junior
senior English literature courses

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

Major in English, B.S Ed Degree

General education 41 hours

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

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

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

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

Minor in English

The minor requires 18 hours in English above the sophomore level

Minor in Writing and Editing

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

Minor in Communications

See the listing in the Department of Communication and Theatre Arts

Minor in Literature

The minor requires 18 hours of literature courses exclusive of those approved for general
education credit
DEPARTMENT OF GEOSCIENCES AND ANTHROPOLOGY

Anne Rogers Head


Major in Geography, B.S Degree

General education 41 hours

Program requirements 8 hours  GEOL 150 MATH 170 171

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

Geography electives (27 hours) at the junior senior level. It is recommended that students develop a specialization within the major. An emphasis may be designed in consultation with the adviser or a student may select one of the following:

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

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

Major in Geography Planning, B.S Degree

General education 41 hours

Program requirements 8 hours  GEOL 150 MATH 170 171

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

Geography electives 9 hours

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

Major in Geology, B.A. Degree

General education 41 hours

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

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

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

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

Major in Geology, B.S Degree

General education 41 hours

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

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

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

Major in Anthropology, B.A Degree

General education 41 hours

Program requirements 6 hours MFL 231 232 or 240

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

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

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

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

Minor in Geography
The minor requires 21 hours including 150 250 and 15 hours of electives above the freshman level

Minor in Geography Planning
The minor requires 23 hours including 150 250 320 460 462 464 and 5 hours of junior senior electives

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

DEPARTMENT OF HISTORY
Curtis Wood Head

Major in History, B A Degree
General education 41 hours
Program requirements 6 hours MFL 231 232 or 240
The major requires 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 42 hours is required including a minor second
major or other approved program and general electives At least 21 hours of these
courses must be at the junior senior level

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

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

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE
Joseph Klerlein  Head

J Baker A Barbir C Burrell R DeVane M Dolan, A Gilman S Glover J Graham
S Manickam R Marshall L Minor L Morton N Norgaard E Prochaska, J
Sportsman, R Stephens D Teague D Wells H Williford, R Willis R Wohlman K
Wood

Major in Computer Science, B.S Degree

General education 41 hours

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

The major requires 58 hours as follows
150 151 Computer Science I II 8 hours
250 Introduction to Computer Systems 3 hours
251 Introduction to Computer Organization 3 hours
310 Discrete Structures 3 hours
351 Data Structures and Algorithm Analysis 3 hours
352 Organization of Programming Language 3 hours
362 Files and Data Structures 3 hours
462 Systems Programming 3 hours
470 Operating Systems 3 hours
MATH 153 255 Calculus I II 8 hours
MATH 254 Matrix Theory 3 hours
MATH 270 Statistical Methods I 3 hours
Electives (12 hours) selected from CS 301 303 320 361 389 441 443 451 453 455 460
463 464 465 480 MATH 350

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

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

General education 41 hours

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

The major requires 37 hours in core courses as follows
153 255 256 Calculus I II III 12 hours
250 Introduction to Logic and Proof 2 hours
262 Introduction to Linear Algebra 3 hours
310 Discrete Structures 3 hours
320 Ordinary Differential Equations 3 hours
361 Introduction to Abstract Algebra 3 hours
370 Statistical Theory I 3 hours
422 Advanced Calculus I 3 hours
479 CAPSTONE Seminar 2 hours
Mathematics elective (3 hours) selected from 423 461 462 470

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

Major in Mathematics, B.S Ed Degree

General education 41 hours

Program requirements 15 hours  CS 150 STA 250 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 general electives (3 hours at the junior senior level) are required to complete the program.

Minor in Computer Science

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

Minor in Mathematics

The minor requires 23 hours including Math 153 250 255 256 and 9 hours of electives in mathematics courses numbered 254 or higher.
DEPARTMENT OF MODERN FOREIGN LANGUAGES

Patricia A Umfress Head

T Gamble P Haberland, R Morgan L Morris N Norris A Perry L Sutton

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

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

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

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

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

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

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

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

Minors in French, German, and Spanish

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

DEPARTMENT OF MUSIC

Robert Kehregen Head

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

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

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

General education 41 hours

Program requirements 6 hours MFL 231 232 or 240

The major requires 40 hours as follows:

152 153 Aural Skills Laboratory  2 hours
178 Basic Musicianship  4 hours
252 Aural Skills Lab  1 hour
277 278 Theory and Literature  6 hours
350 351 Music History  6 hours
428 or 429 Conducting  3 hours

Principal performing medium: a minimum of 8 hours and completion of the junior qualifying examination.

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

Major ensemble 6 hours

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

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

- **Music Industry Option** : ACCT161 MKT301 CIS251 BA133 LAW230 MGT300 MUS 378 9 hours in MUS 489 11 hours electives.

**Minor second major or approved program** 41 hours

Cooperative education may not exceed 6 hours

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

General education 41 hours

The major requires 58 hours including a 35 hour core and 23 hours in general or instrumental music as follows:

152 153 Aural Skills Laboratory  2 hours
168 String Class  1 hour
178 Basic Musicianship  4 hours
252 Aural Skills Lab  1 hour
270 Brass Class  1 hour
271 or 274 Woodwind Class  1 hour
272 Percussion Class  1 hour
277 278 Theory and Literature  6 hours
283 MIDI/Synthesis Class  1 hour
350 351 Music History  6 hours
428 or 429 Conducting  3 hours
470 Orchestration and Arranging  2 hours

Major ensemble 6 hours
Concentration selected from

*General Music* 258 327 169 and 14 hours in one area selected from piano or organ or voice,  
including completion of the 442 level of proficiency in piano the 446 level in organ, or the  
456 level in voice  Keyboard principals also complete 158 and 3 hours in the secondary  
keyboard instrument  Voice principals also complete 4 hours in piano

*Instrumental Music* 158 273 271 or 274 326 0-4 hours in piano or piano class 0.5 hours  
in applied secondary electives and 12 hours in the instrumental principal including  
completion of the 300-level of proficiency  If the principal is a keyboard instrument 3  
hours in one secondary applied wind instrument or in percussion in lieu of piano class also  
are required  Band will be considered the major ensemble for keyboard principals in the  
instrumental curriculum

The professional education sequence (25 hours) for secondary and special teaching excluding EDSE (Methods) plus Music 325 and 1 hour of general electives are required to complete the program

**Minor in Music**

Precollection musical experience and formal training and permission of the head of the music department are required to enroll in the minor  The minor requires 22 hours including 152 153 178 277 4 hours of applied music in voice or an instrument 3 hours selected from class  
piano voice brass woodwind strings or percussion and MUS 181 depending upon the  
student's area of applied music 3 hours in ensemble and 3 hours of electives

**NATURAL RESOURCES MANAGEMENT PROGRAM**

*Lawrence G Kolenbrander Program Coordinator*

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

General education 41 hours

Program requirements 11 hours  CHEM 135  MATH 170 171  MGT 300

The major requires 64 hours including 43 hours in core courses and a 21-hour concentration  
BIOL 130 General Botany 4 hours  
BIOL 131 General Zoology 4 hours  
BIOL 232 General Ecology 3 hours  
GEOG 150 Environmental Geography 3 hours  
GEOG 305 Soils and Hydrology 4 hours  
GEOG 324 Introduction to Remote Sensing 4 hours  
GEOG 402 Conservation of Natural Resources 3 hours  
PRM 460 Management of Natural and Cultural Resources 3 hours  
NRM 340 Natural Resource Measurements 4 hours  
NRM 342 Computer Applications in NRM 1 hour  
NRM 344 Introduction to Geographic Information Systems 3 hours  
NRM 440 Integrated Resource Management 4 hours  
NRM 442 Natural Resource Policy and Administration 3 hours

Concentration 21 hours selected from  
*Forest Resources*  BIOL 254  ECON 310  MGT 306  NRM 350 352, 450  
*Water Resources*  BIOL 413 414 435  CHEM 136 330  NRM 460 and 3 hours of  
designated junior senior natural resources management courses

*Land Use Planning*  GEOG 250 320 460 462 464 and 6 hours at the junior senior level  
in economics management and geography

General electives (12 hours) including at least 12 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
General education  41 hours

Program requirements  6 hours  MFL 231 232 or 240
The major requires 30 hours  Only grades of C or higher in philosophy courses will satisfy
requirements for the major  The following courses are required
231 Introduction to Ethics  3 hours
304 Ancient Philosophy  3 hours
306 Modern Philosophy  3 hours
307 Nineteenth Century Philosophy  3 hours
493 Seminar in Philosophy  3 hours
Philosophy electives at the junior senior level  12 15 hours

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

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

DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC AFFAIRS

C Don Livingston  Head
Gordon Mercer  Director of MPA
W Latumer  S Spangenberg  C Stevens  K Wink

Major in Political Science, B.A Degree
General education, 41 hours

Program requirements  6 hours  MFL 231 232 or 240
The major requires 33 hours as follows
231 American Government and Politics  3 hours
302 or 303 Problems and Policies of American Government or State and Local Government
3 hours
315 316 or 318 European Political Systems  Politics of Developing Areas  or Soviet
Political Systems  3 hours
331 or 332 International Politics or International Organization  3 hours
(331 is required for the concentration in international relations)
345 or 346 Ancient and Medieval Political Thought or Modern Political Thought, 3 hours
Electives cooperative education or internship in the area of the concentration  6 hours

Concentration (12 hours) selected from
General Political Science  Electives at the junior senior level
Public Administration  304  6 hours selected from 307 336 and 421 and 6 hours of junior
senior electives
International Relations  6 hours selected from 332 333 334 335 and 6 hours of junior
senior electives
American Political Institutions  6 hours selected from 305 306 407 409 449 494 and 6
hours of junior senior electives
To complete the program a total of 48 hours is required including at least 18 hours of general electives and a minor second major or other approved program. At least 27 hours of the courses selected must be at the junior senior level.

**Major in Political Science, B.S Degree**

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

**Minor in Political Science**

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

**SOCIAL SCIENCE PROGRAMS**

*James A Lewis Coordinator*

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

General education 41 hours

Program requirements 6 hours MFL 231, 232 or 240

The major requires 39 hours as follows:

- HIST 221, 222 European History 6 hours
- Two of the following four groups: ECON 231-232, GEOG 150, 250, PSC 231, 315, SOC 231, ANTH 260
- Advanced electives (21 hours) including at least 6 hours in each of three areas: American history, anthropology, economics, foreign history, geography, political science, sociology.

To complete the program a total of 42 hours is required including a minimum of 18 hours of general electives and a minor second major or other approved program. At least 30 hours of the courses taken must be at the junior senior level.

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

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

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

General education 41 hours

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

The major requires 48 hours as follows:

- PSY 250 General Psychology 3 hours
- GEOG 102 World Regional Geography 3 hours
- ANTH 260 Cultural and Social Anthropology 3 hours
- HIST 221, 222 European History 6 hours
- HIST 231 American History to 1865 3 hours
- HIST 232 American History since 1865 3 hours
- PSC 231 American Government and Politics 3 hours
- SOC 231 Principles of Sociology 3 hours
- ECON 130 Survey of Economics 3 hours
- Advanced electives (18 hours) in two social sciences selected so that 12 hours are taken in one discipline and 6 hours in another.
The professional education sequence (28 hours) for secondary and special subject teaching and general electives (2 hours) are required to complete the program.

DEPARTMENT OF SOCIAL WORK AND SOCIOLOGY

R Ledford, Acting Head
W Hayden, A Hickey J Hickey B Luoma, J Prewitt H Price H Ramsey B Smith

The social work program is accredited by the Council on Social Work Education and its primary objective is to prepare students for professional social work practice as generalists.

Major in Social Work, B.S. Degree

General education 41 hours

Program requirements 4 hours BIOL 134 or equivalent

The major requires 58 hours as follows
151 Introduction to Social Work 3 hours
251 Social Welfare Policies Programs and Services 3 hours
253 Foundations of Social Work Practice 4 hours
327 Social Work with Families 3 hours
362 364 Social Work Practice I II 8 hours
373 Social Welfare Policy Issues and Analysis 3 hours
402 Person Environment, Culture 3 hours
466 Social Work Research and Evaluation 4 hours
486 487 488 Field Experience 12 hours
496 Field Seminar 3 hours
SOC 314 or ANTH/SOC 414 Social Inequality or Minority Groups 3 hours
CDE 304 Survey of Human Development 3 hours
PSC 302 or 303 or 304 Problems and Policies of American Government or State and Local Government or Public Administration 3 hours

General electives (25 hours) including at least 3 hours at the junior senior level are required to complete the program.

Major in Sociology, B.A. Degree

General education 41 hours

Program requirements 6 hours MFL 231 232 or 240

The major requires 33 hours as follows
231 Principles of Sociology 3 hours
385 Methods of Social Research 3 hours
386 Analysis of Social Data 3 hours
391 Sociological Theory 3 hours

Electives (21 hours) to complete a general sociology emphasis selected from junior senior sociology courses

To complete the program a total of 48 hours is required including at least 18 hours of general electives and a minor second major or other approved program. At least 21 hours of the courses taken must be at the junior senior level.

Major in Sociology, B.S. Degree

All the requirements are the same as described above for the Bachelor of Arts degree except that a foreign language is not required and electives are increased by 6 hours.
Minor in Sociology
The minor requires 21 hours including 231 and 18 hours of junior senior electives

Minor in Social Change
See requirements under Arts and Sciences Interdisciplinary Programs

Minor in Race, Ethnic, and Gender Relations
See requirements under Arts and Sciences Interdisciplinary Programs
SCHOOL OF BUSINESS

John F McCready Dean

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

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

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

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

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

Programs of study include Bachelor of Science in Business Administration, Master of Business Administration, and Master of Project Management. In cooperation with the School of Education and Psychology, the Bachelor of Science in Education is offered in basic and comprehensive business education. All degree programs are provided in Cullowhee. Graduate programs are also available in Asheville.

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

A student may be admitted to a degree program after completing a minimum of 30 hours at Western Carolina University with a 2.0 GPA on hours attempted. Applicants transferring directly from another accredited institution must have a 2.0 GPA on all work attempted at the previous institution. Transfer students who complete courses at the university before applying for admission to the School of Business must have a 2.0 GPA on hours attempted. If less than 30 hours have been attempted at Western, a 2.0 GPA on hours attempted both at Western and at the other institutions is required.

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

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

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

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

Application for graduation may be filed with the dean upon completion of 86 hours but must be filed no later than one month before the final semester of enrollment.

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

DEPARTMENT OF ACCOUNTING AND INFORMATION SYSTEMS

C. Claude Teagarden, Head


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

General education  41 hours  
Program requirements  9 hours  MATH 130  ECON 231  232  
The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours:

275, 352, 353 Intermediate Accounting I, II, III  9 hours  
355 Income Tax  3 hours  
356 Cost Accounting  3 hours  
454 Auditing I  3 hours  
475 Advanced Accounting Projects  3 hours  

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

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

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

General education  41 hours  
Program requirements  9 hours  MATH 130  ECON 231  232
The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours
256 Business Computer Programming 3 hours
258 Applications Development I 3 hours
358 Applications Development II 3 hours
365 Computer Architecture Communications and Operating Systems 3 hours
453 Data Base Management Systems 3 hours
455 Computer Information Systems Analysis and Design 3 hours
465 Information Resource Management 3 hours

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

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

DEPARTMENT OF BUSINESS ADMINISTRATION, LAW, AND MARKETING

Retha Kilpatrick Head

Major in Business Education, B S Ed Degree
General education 41 hours
Program requirements 3 hours MATH 130

The major in business education which includes a disciplinary focus area in economics requires 57 hours as follows
ACCT 251 252 Accounting Principles I II 6 hours
ECON 231 232 Introductory Micro and Macroeconomics 6 hours
ECON 235 Statistics 3 hours
FIN 305 Financial Management 3 hours
LAW 230 Legal Environment of Business 3 hours
MG 300 Introduction to Management 3 hours
MG 305 Quantitative Business Analysis 3 hours
MG 306 Behavioral Science in Organizations 3 hours
BA 404 Strategic Management 3 hours
MKT 301 Principles of Marketing 3 hours
OA 300 Word Processing II 3 hours
OA 402 Administrative Management and Policy 3 hours
OA 304 Business Communications 3 hours
OA 340 Information Processing Systems 3 hours
and three upper level electives in economics 9 hours

The professional-education sequence (27 hours) for secondary and special subject teaching is required to complete the program.

Major in Business Administration and Law, B S B A Degree
General education 41 hours
Program requirements 9 hours MATH 130 ECON 231 232
The major requires 36 hours in core courses as specified by the School of Business and the following 21 hours:

**LAW 331** 332 Business Transactions I II 6 hours
**LAW 415** Legal Aspects of Business Management 3 hours

Electives (12 hours) selected from the following:

Select 3 hours from the following theory courses  **LAW 302** 305 405 412 480

Select 6 hours from the following applied courses **LAW 303** 315 320 389 393 403 410 440 483 484 485 (with no more than 3 hours total from **LAW 483-484-485**)

Select 3 hours from any law course (with no more than a total of 3 hours from the entire 21 hours from **LAW 483-484-485**)

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

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

General education 41 hours

Program requirements 9 hours  **MATH 130**  **ECON 231** 232

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

**302** Marketing Communications 3 hours
**303** Marketing Research 3 hours
**304** Consumer Behavior 3 hours
**405** Marketing Management 3 hours
Marketing electives (9 hours) selected from **305** 306 401 403 404 406 407 408 and 409

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

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

General education 41 hours

Program requirements 9 hours  **MATH 130**  **ECON 231** 232

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

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

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

**Minor in Business Law**

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

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

*Depending on the electives selected course prerequisites may add additional hours Please check the catalog description for specific requirements

DEPARTMENT OF ECONOMICS AND FINANCE

William L. Boyd  Head

G Allen P Hays S Jarrell R Jones S Kask, R McMahan M Schreiber A Spencer D Tye J Wade

H White

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

General education  41 hours

Program requirements  9 hours  MATH 130  ECON 231  232

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

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

Major in Finance, B.S B A Degree

General education  41 hours

Program requirements  9 hours  MATH 130  ECON 231  232

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

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

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

General electives (21 hours) including at least 9 12 hours at the junior senior level are required to complete the program

Second Major in Economics

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

231 Introductory Microeconomics  3 hours

232 Introductory Macroeconomics  3 hours

235 Statistics  3 hours

303 Money Financial Markets and Economic Policy  3 hours

ACCT 251  252 Accounting Principles I II  6 hours

MGT 300 Introduction to Management, 3 hours

LAW 230 Legal Environment of Business  3 hours

Economics electives (9 hours) at the junior senior level

Minor in Economics

The minor which is open only to nonbusiness majors requires 18 hours including 231  232 235  303 and 6 hours of economics electives at the junior senior level
Major in International Business, B.S.B.A

General education 41 hours

Program requirements 15 hours MATH 130 ECON 231 232 and one year of modern foreign language from FREN GERM or SPAN 231 232 or 240

The major requires 36 hours in the core courses as specified by the School of Business and the following 24 hours

ECON 309 International Economics 3 hours
MGT 301 International Management 3 hours
Two courses chosen from the following
FIN 407 Multinational Business and Finance 3 hours LAW 320 Multinational Corporate Law 3 hours MKT 407 International Marketing 3 hours BA 304 Communication in Multicultural Environments 3 hours PSC 331 International Politics 3 hours
Electives (12 hours) selected from at least three different disciplines listed below

ANTH 260 Cultural and Social Anthropology 3 hours
ANTH 327 Economy and Society 3 hours
ECON 401 Comparative Economic Systems 3 hours
ECON 406 International Economic Development 3 hours
GEOG 250 Economic Geography 3 hours
GEOG 440 Topics in Regional Geography Europe 3 hours
GEOG 444 Political Geography 3 hours
MFL 321 or 322 French German or Spanish Civilization 3 hours
HIST 317 History of 20th Century International Relations 3 hours
HIST 416 Europe in the Twentieth Century 3 hours
HIST 411 Western Imperialism 3 hours
PSC 315 European Political Systems 3 hours
PSC 316 Politics of Developing Areas 3 hours
PSC 332 International Organization 3 hours
PSC 333 International Law 3 hours
PSC 335 Problems in World Politics 3 hours
PSC 436 Dynamics of World Order 3 hours
SOC 414 Cross Cultural Communication 3 hours
SOC 434 Regional and Societal Development 3 hours

General electives (12) including at least 9 hours at the junior senior level outside the School of Business are required to complete this program

DEPARTMENT OF MANAGEMENT

J Adams W Kane T Kinnie G Mechling W Murphy S Owens J Pearce H Smith J Wysocki

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

General education 41 hours

Program requirements 9 hours MATH 130 ECON 231 232

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

304 Personnel Management 3 hours
400 Organization Theory 3 hours
402 Production and Operations Management 3 hours
495 Seminar in Management, 3 hours
Electives (9 hours) selected from 301 302 401 405 407 and MKT 405 408

MGT 495 is the capstone course for management majors and effective beginning with majors declared in Fall 1991 must be satisfactorily completed in order for a student to graduate with a degree in Management
General electives (21 hours) including at least 9 hours at the junior senior level are required to complete the program

**Minor in Management**

The minor open to nonbusiness majors only requires 18 hours including MGT 300, 304, 306 and nine hours of approved management electives
SCHOOL OF EDUCATION AND PSYCHOLOGY

Gurney Chambers  Dean
Marilyn Feldmann, Associate Dean

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

The Bachelor of Science and Bachelor of Science in Education degrees are awarded upon completion of the undergraduate programs offered in the school. The Bachelor of Science degree is awarded in psychology, sport management, therapeutic recreation, and parks and recreation management. The Bachelor of Science in Education degree is normally awarded to those completing a teacher-education program. Students may pursue programs leading to the Bachelor of Arts or Bachelor of Science degrees simultaneously with a program in teacher education but must fulfill all requirements of an approved teacher education program.

The Teacher Education Program

Admission and retention policies in teacher-education programs are based on the standards and guidelines of the State of North Carolina and the National Council for Accreditation of Teacher Education (NCATE). Approved institutions must have established procedures for implementing decisions regarding admission to and retention in teacher-education programs. The state and NCATE guidelines require continuous evaluation of students admitted to teacher-education programs and states that those found unlikely to succeed as teachers should be withdrawn. The standards of NCATE state that prospective teachers should demonstrate those personal characteristics which will contribute to rather than detract from their performance in the classroom. The standards further state that the institution has the right and the obligation to consider pertinent personal factors as well as academic achievement as a basis for permitting a student to continue in a teacher-education program.

Disciplinary Focus Area

A disciplinary focus area is a 24-hour course of study in an academic discipline required of education students enrolled in a B.S.Ed. program in communication disorders, business, elementary, middle grades, physical education or special education (general mental retardation or learning disabilities). The disciplinary focus areas available are the following: Anthropology, Art, Economics, English, French, Geography, Geology, German, History, Mathematics, Music, Philosophy, Political Science, Psychology, Sociology, Spanish, Speech, Theatre, Arts. A disciplinary focus area course of study must be completed and filed in the Dean's office.

Admission to the Teacher Education Program

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

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

Students should apply for admission to the teacher-education program no later than the semester in which they are enrolled in ED CI 231, a course that is prerequisite to all other courses in the professional education sequence. Students must complete all requirements for admission to the teacher-education program by the end of the semester in which they are approved for admission by the Teacher Education Council.

Admission to the program is competitive, and the requirements stated above are the minima to be met in order to apply and be considered.

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

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

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

If a student fails any course in the professional education sequence and/or any part of the National Teacher Examination twice, the student is withdrawn from teacher education.

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

**Communications Disorders** 9 hours
- ED CI 231
- PS Y 320
- PS Y 321

**Elementary and Middle Grades** 23 hours
- ED CI 231
- PS Y 320
- PS Y 321
- SP ED 335
- ED EL 490
- ED EL 495

**Special Education** 21 hours
- ED CI 231
- PS Y 320
- PS Y 321
- SP ED 490
- SP ED 495

**Secondary and Special Subject Teaching** 27 to 28 hours
- ED CI 231
- SP ED 335
- PS Y 320
- PS Y 321
- EDRD 323
- *Methods* ED SE 490
- 495

* Students majoring in biology science, social sciences, take ED SE 322. Other students take the special methods course offered in their major department.

Field Experience Requirement. The teacher education program requires field experiences in conjunction with several courses in addition to the student teaching requirement. Students are expected to make their own arrangements for transportation and housing and absorb the costs related to field experiences and student teaching. Each program has different requirements and students should discuss costs with the program head prior to applying for admission to the teacher-education program.

Selective Admission to Student Teaching. Students apply to the director of field experiences early in the semester prior to the semester in which student teaching is to be done. The requisites for application are (1) enrollment in the professional education sequence for at least two semesters (2) completion of at least 90 hours in a teacher education curriculum.
(3) one term in residence (4) a GPA of 2.50 or above both at the beginning of the term immediately preceding the student teaching term and at the time of enrollment in student teaching (5) completion of at least two thirds of the major (6) completion of all records designated by the director of field experiences (7) removal of conditions placed on the student at the time of admission to the teacher-education program (8) completion of the applicable professional education sequence except for student teaching and the student teaching seminar and (9) completion of all competency requirements in the media lab including computer competencies.

Continuation in Student Teaching: To continue in student teaching students must maintain satisfactory professional conduct and adhere to the policies and regulations of the school to which they are assigned. When recommended by the director of field experiences and approved by the dean students failing to perform at a satisfactory level may be removed from student teaching.

Requirements for Teacher Certification:
To be eligible for teacher certification a student must (1) complete one of the approved teacher-education programs (2) make a minimum grade of C in student teaching (3) receive a public school recommendation indicating that a student teaching performance has been successful (4) complete applications for certification and file them with the dean of the School of Education and Psychology (5) receive a recommendation from the head of the department of the teaching major (6) request NTE scores to be sent to WCU (7) receive a professional recommendation for Class A certification by the dean of the School of Education and Psychology (8) pay the fee required by the State Board of Education for the issuance of teacher certificates.

North Carolina Teaching Fellows:
North Carolina Teaching Fellows must complete requirements in addition to those for regular teacher-education students.

DEPARTMENT OF ADMINISTRATION, CURRICULUM, AND INSTRUCTION

Donald M Chalker Head


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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Students seeking or holding a degree other than a Bachelor of Science in Education may be admitted to the teacher-education program and earn teacher certification. Consult your adviser or department head.
DEPARTMENT OF ELEMENTARY EDUCATION AND READING
Lester L. Laminack, Acting Head

B Bell B Capps C DelForge J Franson, J Gentry E Lofquist R McCreary C Meigs
J Parker J Perlmuter J Pulch T Rose G Schuncke

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

The major requires 40 hours as follows
EDEL 303 Literature for Children and Youth 3 hours
EDEL 312 Elementary School Curriculum and Methods 3 hours
EDEL 315 Elementary/Middle Grades Communication Skills 3 hours
EDEL 316 Elementary/Middle Grades Science 3 hours
EDEL 317 Elementary/Middle Grades Social Studies 3 hours
EDEL 318 Elementary/Middle Grades Mathematics 3 hours
EDEL 390 Practicum in Elementary Education I 1 hour
EDEL 476 Discipline and Classroom Control 2 hours
EDRD 334 Reading Instruction in the Elementary School 3 hours
EDRD 474 Diagnostic Teaching of Reading 3 hours
PE 360 Skills in Promoting Healthful Living 3 hours
MATH 230 Theory of Arithmetic I 3 hours
MATH 231 Theory of Arithmetic II 3 hours
MUS 301 Basic Skills 2 hours
ART 363 Art for Children 2 hours

In order to complete the program the following are required
1 Completion of an approved disciplinary focus area 24 hours
2 Completion of the professional education sequence for elementary education majors 23 hours

Major in Middle Grades Education, B S Ed Degree
General education 41 hours

The major requires 18 hours in core courses as follows
EDEL 310 Middle Grades Child and Curriculum 3 hours
EDEL 315 Elementary/Middle Grades Communication Skills 3 hours
EDEL 390 Practicum I 1 hour
EDEL 466 Computers in Education 3 hours
EDEL 476 Discipline and Classroom Control 2 hours
EDRD 443 Middle Grades Reading 3 hours
EDRD 474 Diagnostic Teaching of Reading 3 hours

In order to complete the program the following are required
1 The completion of an approved disciplinary focus area (24 hours)
2 Two concentrations of at least 18 hours including the appropriate three hour methods course in mathematics and science or social studies and language arts. Work completed in the disciplinary focus area may be counted toward one concentration
3 The professional education sequence (23 hours) for middle grades education and an elective (1-4 hours)

Reading (K-12) Certification Track
Certification in reading may be earned by students holding or eligible for certification in Elementary Education or Middle Grades Education. The program requires 19 semester hours including EDEL 303 EDEL 467 EDRD 334 EDRD 443 EDRD 453 and EDRD 474 Students holding or eligible for certification in other areas may also obtain certification in reading. For information contact the head of the Department of Elementary Education and Reading.
DEPARTMENT OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Betty Suhre Acting Head

J Benson, S Brown, J Bryant J Cone M Creason, C Friesner L Harmon J Heumdal S Hodgins A Jacobs E Keegan, K LeClair S McPherson, B Peele S Persons M Phipps R Ray C Schrader 0 Spiker L Travis J Wike

Major in Physical Education, B.S.Ed Degree

General education 41 hours

The major requires 36 hours as follows
HEAL 230 High Level Wellness 2 hours
HEAL 250 First Aid and Safety Education 2 hours
PE 251 Dance Dynamics 3 hours
PE 261 262 263 Skills Acquisition I II III 3 hours
PE 310 Management of Physical Education and Sport Activities 2 hours
PE 311 Measurement and Evaluation 2 hours
PE 312 Foundations of Health and Physical Education 3 hours
PE 345 Elementary Physical Education 3 hours
PE 335 Anatomy and Physiology 4 hours
PE 355 Methods and Teaching Analysis of Team and Individual Sports 3 hours
PE 423 Kinesiology 2 hours
PE 424 Methods in Adaptive Physical Education 2 hours
PE 405 Outdoor Leisure Pursuits 1 hour
PE 425 Physiology of Exercise 2 hours
PE 435 Motor Learning 2 hours
PE 102 or passing score on Aquatic Proficiency Test 0 1 hour

In order to complete the program the following are required
Disciplinary Focus Area 24 hours

All majors are required to pass the departmental aquatic proficiency test or PE 102 All majors are encouraged to be active in intramural programs Juniors and seniors must be in good standing as members of the Physical Education Majors Club All majors must be active in a varsity sport or serve as an intramural assistant for at least two full years (one year for transfer students with previous varsity experience) or serve as an assistant in the Adult Fitness or Cardiac Rehabilitation program

The professional education sequence (27 hours) for secondary and special subject teaching

Major in Health Education, B.S.Ed Degree

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

Major in Therapeutic Recreation, B.S Degree

General education 41 hours

Program requirements 10 hours COUN 430 SOC 354 or 355 BIOL 134

The major requires 62 hours as follows
TR 240 Foundations of Therapeutic Recreation 3 hours
TR 253 Activity Skills for Special Populations 2 hours
TR 352 Therapeutic Recreation Processes and Techniques 3 hours
TR 385 Pre Internship Seminar 1 hour
TR 417 Administration of Therapeutic Recreation Services 3 hours
TR 484 Field Experience in Therapeutic Recreation 6 hours
TR 485 Field Experience in Therapeutic Recreation 6 hours
PRM 250 Foundations of Parks and Recreation Management 3 hours
PRM 270 Theories of Recreation Program Planning and Leadership 3 hours
PRM 321 Outdoor Education 3 hours  
PRM 461 Management of Parks and Recreation 3 hours  
PE 335 Anatomy and Physiology 4 hours  
PE 424 Methods in Adaptive Physical Education 2 hours  
HSCC 130 Introduction to Health Professions 3 hours  
HSCC 220 Medical Terminology 3 hours  
HEAL 250 First Aid 2 hours  
HEAL 305 Current Health Problems 3 hours  
PSY 470 Abnormal Psychology 3 hours  
SPED 405 Introduction to Mental Retardation or SPED 432 The Physically Handicapped Child 3 hours  
Electives (3 hours) selected from TR 360 470 481  

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

Major in Parks and Recreation Management, B.S Degree

General education 41 hours

Program requirements 13 hours  STA 250 MATH 170 171 CIS 251 TR 240  
The major requires 60 hours as follows  
ACCT 251 Accounting Principles I 3 hours  
MGT 300 Introduction to Management, 3 hours  
MGT 401 Small Business Management 3 hours  
MKT 301 Principles of Marketing 3 hours  
ENGL 401 Writing for the Professions 3 hours  
PRM 150 Career Opportunities in Parks and Recreation Management, 1 hour  
PRM 250 Foundations of Parks and Recreation Management 3 hours  
PRM 255 Special Events Planning and Promotion 3 hours  
PRM 350 Interpretation of Natural and Cultural Resources 3 hours  
PRM 370 Internship Orientation 1 hour  
PRM 383 Internship 3 hours  
PRM 440 Travel and Tourism 3 hours  
PRM 450 Elements of Parks and Recreation Planning 3 hours  
PRM 460 or 461 or 430 Management of Natural and Cultural Resources or Community Recreation Management or Commercial Recreation 3 hours  
PRM 480 Independent Study 3 hours  
PRM 483 Internship, 3 hours  
PRM 495 Senior Seminar 1 hour  
Electives (15 hours) in an approved area of specialization  

General electives (14 hours) are required to complete the program. The general electives and electives in the major in combination must include at least 16 hours at the junior senior level. Students are urged to plan programs that will lead to competency in a second area of specialization.

Major in Sport Management, B.S Degree

General education 41 hours

Program requirements 10 hours  BIOL 134 PE 213 STA 250  
The major requires 64 hours as follows  
Core courses 45 hours  
SM 260 Introduction to Sport Management 2 hours  
SM 415 Legal Issues for the Sport Practitioner 2 hours  
SM 484 485 Internship 12 hours  
SM 495 Sport Management Seminar 1 hour  
PE 312 Foundations of Health and Physical Education 3 hours
PE 313 Psychological Aspects of Sports  3 hours  
PE 335 Anatomy and Physiology  4 hours  
CIS 251 Management Information Systems  3 hours  
ACCT 161 Accounting for Non Business Major  3 hours  
MGT 300 Introduction to Management, 3 hours  
MGT 304 Personnel Management, 3 hours  
MGT 306 Behavioral Science in Organizations  3 hours  
MKT 301 Principles of Marketing  3 hours

Concentration (19 hours) selected from  
Exercise Science and Fitness Management  CHEM 132  133 PE 423  425 ND 330 COUN 430  and one course selected from SM 380  383  389
Sporting Goods Management and Sales  ACCT 251 MGT 400 MKT 302  304  306 LAW 230  one course selected from SM 380  383  389
Sports Media  RTV/JOUR 140  301 RTV 251 or JOUR 302 RTV 250 and 354 or 355 MKT 302  and one course selected from SM 380  383  389
Recreational Sport Management  PRM 270  330 MGT 400 TR 253 SM 315  435 and one course selected from PE 261  262  263 and one course selected from SM 380  383  389
Athletic Administration  PE 310 MGT 400 MKT 302 LAW 315 SM 435 one course selected from PE 261  262  263 one course selected from PE 410  411  418 and one course selected from SM 380  383  389
Professional Sport Management  MGT 302 MKT 304  306  405 LAW 315 SM 435 and one course selected from SM 380  383  389
Event and Facility Management and Marketing  MGT 302 MKT 304  306 PE 330 PRM 450 SM 435 and one course selected from SM 380  383  389
Athletic Training  HSCC 240  370 ND 330 PE 413  423  425 and four hours selected from SM 380  383  389

General electives (13 hours) including appropriate credits at the junior senior level are required to complete the program

Minor in Coaching  
The minor requires 20 hours including HEAL 250 PE 213  313  335 SM 415 and two courses selected from PE 410  411  418 The minor is not open to physical education majors

Minor in Physical Education  
The minor requires 20 hours including HEAL 250 PE 261  262  263  312  325  345  353  435 and SM 415

Minor in Therapeutic Recreation  
The minor requires 21 hours including TR 240  352  417 PRM 250  321 PE 320 and 3 hours of guided electives

Minor in Health Education  
The minor requires 19 hours including HEAL 230  305  311  312  410 ND 330 PE 320

DEPARTMENT OF HUMAN SERVICES  
A Michael Dougherty Head  
Major in Special Education, General, B S Ed Degree

Students who complete this major are eligible for North Carolina certification in learning disabilities and mental retardation

General education 41 hours

Special education major 36 hours as follows

240 The Exceptional Child 3 hours
310 Evaluation of the Exceptional Child 3 hours
312 Teaching Children with Learning Problems K 6 3 hours
401 Introduction to Learning Disabilities 3 hours
405 Introduction to Mental Retardation 3 hours
413 Teaching Adolescents with Learning Problems 3 hours
417 Managing Classrooms for Exceptional Children 3 hours
450 Individual Educational Plans for Students with Disabilities 3 hours
486 Practicum in Mental Retardation 1 hour
487 Practicum in Learning Disabilities 2 hours
EDEL 318 Elementary/Middle Grades Mathematics 3 hours
EDRD 474 Diagnostic Teaching of Reading 3 hours
Guided electives 3 hours

The professional education sequence (21 hours) a disciplinary focus area (24 hours) and 6 general elective hours are required to complete the program

Major in Learning Disabilities, B S Ed Degree

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

Major in Mental Retardation, B S Ed Degree

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

Major in Communication Disorders, B S Ed Degree

This is a preprofessional program. Licensure and certification by the State of North Carolina and the American Speech Language Hearing Association require successful completion of a master's degree

General education 41 hours

The major requires 37 hours as follows

SPED 240 The Exceptional Child 3 hours
EDCD 270 Introduction to Communication Disorders 3 hours
EDCD 301 Speech and Language Development 3 hours
EDCD 320 The Clinical Process 3 hours
EDCD 370 Phonetics 3 hours
EDCD 371 Articulation Disorders 3 hours
EDCD 372 Speech Science 3 hours
EDCD 450 Introduction to Audiology 3 hours
EDCD 471 Anatomy and Physiology of the Speech Mechanism 3 hours
EDCD 476 Language Disorders in Children 3 hours
EDCD 474 Voice Disorders 3 hours or
EDCD 478 Fluency Disorders 3 hours
EDCD 485 Clinical Practicum 1 hour
EDCD 495 Seminar in School Practice 3 hours

Disciplinary focus area 24 hours

The professional education sequence requires EDCI 231 PSY 320 and PSY 321 9 hours
General electives include 17 hours and provide for the selection of a supervised school-based clinical internship through enrollment in EDCD 490 6 hours

Minor in Special Education
The minor in special education requires 18 hours including SPED 240 310 401 405 and 6 hours of guided electives

DEPARTMENT OF PSYCHOLOGY
Bruce B Henderson Head

Major in Psychology, B.S. Degree
General education 41 hours

The major requires 39 hours as follows
250 General Psychology 3 hours
251 252 Research Methods I II 6 hours
495 Senior Seminar in Psychology 3 hours

Psychology Electives
Developmental 3 hours selected from 324 325
Social 3 hours selected from 310 313 412
Experimental 3 hours selected from 343 440 444
Clinical 3 hours selected from 363 430 441 470 474
Others 15 hours excluding 101 105 320 321

To complete the program a total of 48 hours is required including at least 12 hours of general electives appropriate credits at the junior senior level and either (1) a second major minor or other approved program or (2) a 21 hour concentration selected from

Cognitive Psychology 9 12 hours selected from 310 343 440 444 480 9 12 hours selected from EDCD 301 370 450 ENGL 415 STA 316 STA 410 PHIL 340 PHIL 341 CS 443 CS 480 (the last 4 courses have prerequisites)

Applied/Developmental Psychology 21 hours selected from 312 324 325 327 333 360 363 412 426 441 460 474 482

Minor in Psychology
The minor requires 24 hours including 250 251 (or equivalent) 252 (or equivalent) and 15 hours of approved psychology electives

Minor in Life Span Development
The minor requires 24 hours including PSY 324 325 3 6 hours selected from PSY 327 393 6 9 hours selected from PSY 331 333 426 470 474 CDFR 261 469 COUN 450 and 3 6 hours in PSY 482 483 or approved courses named above
THE GRADUATE SCHOOL

Anthony A Hickey Dean

Steven P Yurkovich Associate Dean

The Graduate School at Western Carolina University awarded its first graduate degrees in 1952. Since that time it has continuously broadened its offerings. Programs offered by the Graduate School lead to nine master's degrees with more than 50 options in the different professional and academic areas and to the Education Specialist degree in school administration, supervision, curriculum, and instruction. Elementary education and middle grades, The Certificate of Advanced Study in School Counseling is also offered.

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

Master of Science Majors in Applied Mathematics Biology Chemistry Communication Disorders Home Economics Human Resource Development, and Technology

Master of Arts in Education Majors in Educational Administration (public school and two year college) Counseling (school and community) Elementary Education Middle Grades Education Reading (public school and two year college) Special Education (general with concentrations in behavioral disorders, learning disabilities, and mental retardation) Educational Supervision (elementary education middle grades subject specialties curriculum and instruction and instructional technology specialist-computers) and in Secondary Education and/or Two Year College Teaching with majors in biology, business, chemistry, English, home economics, mathematics, physical education and social sciences

Master of Business Administration

Master of Health Sciences

Master of Industrial Education Industrial Education with options for secondary and two year college teaching

Master of Music Education

Master of Project Management

Master of Public Affairs

Education Specialist School Administration Elementary Education Middle Grades Education Supervision and Curriculum and Instruction with specialties for elementary and secondary school and two year college personnel

Certificate of Advanced Study School Counseling

Admission and Program Requirements

Admission to the Graduate School requires a bachelor's degree from a regionally accredited college or university with an undergraduate background appropriate for graduate study in the proposed field and a minimum GPA of 2.75 in the last two years of the undergraduate program. Departments may have a higher required GPA. Departments also require some form of standardized test such as GMAT GRE MAT or NTE. Please consult the Graduate Catalog Issue of The Record (catalog) for specific requirements for each program. Prospective students are encouraged to talk to the head of the department of the intended program concerning their eligibility to be admitted as a graduate student. Many programs require three letters of reference from former instructors or employers who are in a position to judge the applicant's aptitude for graduate study. These forms are available from the

*Complete information will be found in the Graduate Catalog Issue of The Record which is available from the office of the dean.*
Graduate School  Formal application and all credentials should be submitted to the Graduate School not later than six weeks prior to the opening of the term in which the student expects to enroll

Some graduate programs require a thesis  These are  M A in American History (excluding public history and American studies options)  M A in English  M A in Psychology (all programs)  M S in Biology  M S in Chemistry and the Master of Health Sciences  A thesis or approved research topic is required for the M A in Art Education  A thesis-exhibition is required for the M A in Studio Art  A thesis or lecture/recital is required for the M A in Music  A thesis may be accepted for degree programs leading to the Master of Arts in Education the Master of Industrial Education the Master of Music Education the Master of Science in Applied Mathematics the Master of Science in Communication Disorders and the Master of Science in Home Economics and the Certificate of Advanced Study in School Counseling

A reading knowledge of a foreign language is required for the following programs  M A in American History  M A in English and the M S in Biology  Other degree programs do not require proficiency in a foreign language

All degrees may be completed with a minimum of 30 to 61 semester hours of graduate study However applicants may be required to take additional coursework to strengthen their academic background
COURSE DESCRIPTIONS

All courses offered by the university are listed below. For the full description of graduate courses refer to the graduate catalog. If the entry for an undergraduate course does not carry the full description refer to the listing for the field of study designated by the parenthetical course prefix and number.

**Numbering System** Each course is identified by means of a course prefix and a three-digit number. The first digit of the number designates the level of the course and indicates the minimum class rank a student should have achieved to enroll in the course:

- 01 99 Noncredit courses which are not applicable to degrees
- 100 199 Courses for Freshmen
- 200 299 Courses for Sophomores
- 300 399 Courses for Juniors
- 400 499 Courses for Seniors
- 500 and above Courses for Graduate Students only
- 700 799 Specialist degree and post master's degree courses

Students should not enroll in courses numbered above their class rank without the permission of the department offering the course. Undergraduate students may not enroll in graduate level courses for either undergraduate or graduate credit except under the conditions specified in the graduate catalog. In such cases the student must meet graduate level requirements to receive credit.

All courses approved for general education at the freshman and sophomore levels are numbered in the ranges 101 129 and 201 229. The category of general education to which each course applies may be found on pages 56-59. The applicable category also is indicated by the parenthetical code at the end of each course description:

- F1 Written Communication
- F2 Mathematics
- F3 Thinking Reasoning Expressing
- F4 Computer Literacy
- F5 Leisure and Fitness
- P1a Human Behavior
- P1b Contemporary Institutions
- P2 Physical and Biological Sciences
- P3a Humanities
- P3b Fine/Performing Arts
- P4 Comparative Cultures
- P5 The Human Past

The number 389 is reserved for cooperative-education courses.

Within the sequences 480-499, 580-599, 680-699, and 780-799 the second and third digits of the numbers are assigned to special types of courses:

- 80 82 Independent study and directed readings courses
- 83 89 Internships, practica, and special applied field projects
- 90-92 Student teaching
- 93 94 Special topics courses
- 95 98 Seminars
- 699 Thesis

**Course Prefixes** The prefixes used to designate courses except in the case of very short names such as Art, are abbreviations of the names of departments or of fields of study within the departments.

**Credits and Class Meetings** Unless otherwise indicated at the end of the course description the number of hours a class meets each week is the same as the credit hour value of the course. The credit hour value of each course is indicated in parentheses immediately following its title. For example, if 3 hours of credit may be earned the credit is indicated as follows (3). In variable credit courses the minimum and maximum hours are shown as follows (1-3). Unless repeat credit is specified in the course description a course may be applied only once toward the hours required for graduation. The availability of a course for repeat credit and the maximum hours that may be earned are indicated within the parentheses and immediately
following the credit hour value of the course as follows (3 R6) In this example the course carries 3 hours of credit and may be repeated once for a total maximum of 6 hours applicable toward a degree

Prerequisites and Corequisites A prerequisite (PREQ) is any special requirement, usually one or more background courses or requirements other than class rank that must be met before enrolling in a course specifying the prerequisite A corequisite (COREQ) is any course which must be taken during the same term as the course that specifies the corequisite

Experiential Courses The maximum credit in experiential courses that may be applied toward a degree within the minimum 128 hours required in all bachelor's programs is 26 semester hours (20 percent) The maximum credit that may be earned in cooperative education or applied field project courses/internships or in any combination of the two is 15 hours

Credit is awarded in experiential courses on the basis of a minimum of three contact hours per credit hour

Cooperative Education Courses Students participating in a cooperative education work term are registered for a 389 course in the major department or the department most closely related to the work experience To be eligible a student must be at least a sophomore and have a GPA of 2.00 or above Exceptions must be approved by the departmental Co-op/Placement Adviser A full statement of the requirements for academic credit is available from the cooperative education office in the Career and Academic Planning (CAP) Center Academic assignments and work performance are used to evaluate the student on an S/U basis
<table>
<thead>
<tr>
<th>Prefix</th>
<th>Field of Study</th>
<th>Department</th>
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<tbody>
<tr>
<td>ACCT</td>
<td>Accounting</td>
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<td>Academic Affairs</td>
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Accounting (ACCT)

161 Accounting for the Non Business Major (3)
The basic accounting cycle financial statements uses of accounting in business and non business organizations Not open to students seeking the B S B A degree

251 Accounting Principles I—Financial (3)
Proprietary based treatment of the accounting cycle financial statements merchandising cash receivables payables inventories plant property and equipment payroll accepted accounting principles and partnerships

252 Accounting Principles II—Managerial (3)
Corporations investments consolidated statements tax impact on decisions statement analysis changes in financial position responsibility accounting manufacturing cost process job order standard PREQ 251

275 Intermediate Accounting I (3)
Accounting theory in financial statements valuation and present value concepts current assets PREQ 252

293 Topics in Accounting (1,3,R3)

301 Financial Statement Analysis (3)
Short term liquidity cash flow from operations funds flow capital structure long term solvency return on investment asset utilization and operating performance PREQ 252

352 Intermediate Accounting II (3)
Theory applied to current and long term liabilities plant property and equipment intangible assets and stockholders equity PREQ 275

353 Intermediate Accounting III (3)
Theory in revenue recognition error analysis tax allocation pensions leases price level reporting statement of cash flows consolidations and topics of current interest PREQ 352

355 Income Tax I (3)
Federal tax on individual incomes capital gains and losses income averaging amendments deductions exemptions withholdings income concepts depreciation

356 Cost Accounting I (3)
Budgeting systems design responsibility accounting and motivation standard costing variance analysis cost behavior patterns relevant costs contribution analysis and in come effects of costing alternatives PREQ 252

361 Not For Profit Accounting (3)
Accounting principles as applied to governmental agencies and other nonprofit organizations PREQ 252

389 Cooperative Education in Accounting (1 or 3,R15) See page 123

454 Auditing I, II (3,3)
464 Theory practice and procedures in independent audits standards professional ethics and internal control PREQ 453

465 CPA Problems (3)

466 Income Tax II (3)

467 Cost Accounting II (3)

475 Advanced Accounting Projects (3)
The strategic use of accounting in the business environment integration of accounting
480 Independent Research in Accounting (3)
PREQ Accounting major permission of department head

483 Accounting Internship (3,3,3)
484 Supervised work or research experience in applications of accounting theory S/U
485 grading PREQ Junior standing 2.0 GPA formal application and permission of department head Minimum of 10 hours per week

493 Topics in Accounting (1 3,R6)
PREQ Permission of department head

Graduate Courses
601 Financial Analysis (3) 662 Taxation and Business (3)
651 Managerial Accounting (3) 682 Research Project in Accounting (3,R6)
661 Advanced Theory (3) 693 Topics in Accounting (1 3 R6)

Anthropology (ANTH)

110 Origins of Civilization (3)
The development of civilizations in major world areas from the earliest beginnings to the present (P5)

120 (320) Comparative Cultural Systems (3)
Analysis and comparison of the major features of diverse human cultures (P4)

250 Archeology and Bioanthropology (3)
Evolutionary theory human genetics primatology fossils humans and early civilizations

260 Cultural and Social Anthropology (3)
Survey and comparison of social political economic religious and artistic achievements to provide understanding of cultural diversity

327 Economy and Society (3)
Types of economic systems examined and compared emphasis on preindustrial and industrializing societies PREQ 260

341 History of Anthropological Theory (3)
Concepts theories and schools of thought in historical context contributions to contemporary anthropology PREQ 250 260

349 Applied Anthropology (3)
Examination of problems and solutions in programs of directed social and cultural change case studies PREQ 260

351 Cultural Ecology (3)
Relationships between physical environment and culture nonphysiological means of environmental adaptation PREQ 250 260 or SOC 231

361 World Prehistory (3)
Survey of cultural developments in society from the dawn of man to the advent of modern civilization

365 Religion, Magic, Myth (3)
Noliterate 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 page 123

414 (SOC 414) Minority Groups (3)

417 Southern Appalachian Culture (3)
Stability and change in the sociocultural institutions of the region PREQ 260 or SOC 231

419 Comparative Family (3)
The family as a social institution in various cultures PREQ 260 or SOC 231

431 North American Prehistory (3)
Cultural history of the peoples of prehistoric North America including Mexico PREQ 250

440 Archeological Field Techniques (3)
Basics of field work surveying photography excavation recording and preservation techniques PREQ Permission of instructor

441 Archeological Problems and Analyses (3)
Experience in collecting and analyzing relevant archeological data PREQ Permission of instructor

461 Indians of North America (3)
Traditional and changing life styles of native North Americans environmental adaptations social organizations religions and arts PREQ 260

464 Cultures of South Asia (3)
The cultures of India Pakistan Ceylon Nepal Afghanistan and other South Asian countries PREQ 260

466 Folklore (3)
Major forms theories and functions of lore among the world’s cultures collection classification and analysis of folklore PREQ 260 or permission of instructor

473 Contemporary Cherokee Culture and Society (3)
Present day Cherokee culture and society effects of tourism and the reservation system on life styles PREQ 260

477 Cultures of Subsaharan Africa (3)
Cultural diversity and development in Subsaharan Africa from earliest times to the present

481 Independent Study in Anthropology (1,2,R6)
PREQ Written application approval of instructor and adviser

483 Anthropology Internship (3,3,3)
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 (302) African, Asian, and Western Art (3)
Style, symbolic expression and attitudes toward mankind's relationship to nature in three distinct world cultures (P4)

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

104 (308) Art Appreciation (3)
Introduction to the visual arts through an analysis of artists and their works, methods of visual expression, and examination of critical thinking as applied to visual form and content (P3b)

120 Beginning Drawing and Sketching (1)
Experiments with a variety of drawing materials to familiarize the nonmajor with various approaches 2 Lab (F5)

121 Beginning Painting (1)
Development of a composition; sketching the subject; mixing colors and applying paint for nonmajors 2 Lab (F5)

123 Off Loom Fiber Works (1)
Weaving on frame or hoop warps, fiber constructions, creative stitchery, and quilting for nonmajors 2 Lab (F5)

124 Beginning Ceramics (1)
Introduction to clay forming, firing and glazing techniques for nonmajors 2 Studio (F5)

125 Introduction to Calligraphy (1)
Basic calligraphy for nonmajors as appreciation of letter forms in visual elements 2 Studio (F5)

126 Image Making for Non Artists (1)
Experimentation with photographs, photo montage, collage, transfer rubbings, and other techniques for making images 2 Lab (F5)

131 Introductory Drawing (3)
The investigation of both traditional and nontraditional methods of drawing with emphasis on the nature of drawing as a way of seeing and organizing ideas and perceptions. Lab fee charged 6 Studio

132 Two Dimensional Design (3)
Foundation course with an emphasis on traditional two-dimensional techniques. Emphasis is placed on use of materials and tools, problem solving, aesthetic theory, and criticism. Lab fee charged 6 Studio

136 Art History Survey I, II (3, 3)
The visual arts from the prehistoric period through the Renaissance in 136, from the 17th through the 20th centuries in 137
141 Figure Drawing (3, R6)
Analytical and compositional life drawing based on the human form using varied media.
Study of anatomy, master drawings and the use of the figure for purposes of design and
expression. Lab fee charged. PREQ: 131 6 Studio.

142 Three-Dimensional Design (3)
Traditional and nontraditional studio techniques, tools, and media. Emphasis is placed
on problem solving through studio activity and relating art theory and criticism to the
studio. 6 Studio.

233 Introductory Painting (3)
Emphasis on color theory and the materials and techniques of painting. Historical
concerns are integral parts of directed and individual investigations. Lab fee charged.
PREQ: 131 132 or permission of instructor 6 Studio.

234 Introductory Printmaking (3)
Materials and methods of various printmaking techniques as they relate to historical and
contemporary issues. Lab fee charged. PREQ: 131 132 or permission of instructor 6 Studio.

241 Introductory Sculpture (3)
Principles and processes of sculpture supported by critical thinking, class critique,
historical and contemporary references. Lab fee charged 6 Studio.

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

263 Introduction to Art Education (1)
Introduction to current art education topics and approaches for teaching art in the
traditional and non-traditional settings. 2 Studio. Spring only.

270 Communication Design (3)
Principles of visual communications including structure, typography, color, and semantics.
Emphasis on developing an understanding of the scope of graphic design including
theory, practice, and technology. Lab fee charged. PREQ: 132 6 Studio.

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

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

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

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

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

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

312 Nineteenth Century Art (3)
Major styles of art and architecture in Europe.
314 American Painting (3)
Major artists and trends: the earliest colonial luminaries to the abstract expressionists in the mid 20th century. PREQ 136

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

317 Development of Modern Sculpture (3)
Academic sculpture in the 19th century, modernist innovations from Rodin to David Smith. PREQ 137

318 Development of Modern Architecture (3)
Late 19th and 20th-century architecture: materials, styles, and theories of architects and engineers in a changing world. PREQ 137

319 History of Design (3)
Survey of the development of graphic design, pre-history through contemporary visual communications, topics include the interrelated areas of typography, photography, and illustration as well as current conceptual and art history issues. PREQ 136, 137

330 Intermediate Drawing (3,R6)
The history and functions of drawing as a method of developing ideas and as an end in itself, relationship to other media. Lab fee charged. PREQ 141, 6 Studio

333 Intermediate Painting (3,R6)
Materials, techniques, and aesthetic issues of painting in contemporary and abstract modes with focus on personal interpretation and perception. Lab fee charged. PREQ 233, 6 Studio

334 Intermediate Printmaking (3,R6)
Exploration of various printmaking techniques with focus on personal interpretation and perception. Lab fee charged. PREQ 234, 6 Studio

342 Intermediate Sculpture (3,R6)
Materials, techniques, and aesthetic issues of sculpture in contemporary and abstract modes with focus on personal interpretation and perception. Lab fee charged. PREQ 241, 6 Studio

350 Fibers (3,R6)
Exploration of weaving techniques and structural forms in fibers combined with the history of weaving and the critical evaluation of projects. Lab fee charged. 6 Studio

351 Intermediate Ceramics (3,R6)
Study of ceramics within a historical and contemporary context, emphasis on clay forming techniques combined with class discussion and criticism. Lab fee charged. PREQ 251, 6 Studio

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

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

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

364 Intermediate Glass (3,R6)
Materials, techniques, and aesthetic issues of contemporary glass blowing and forming with emphasis on personal interpretation and perception. PREQ 355, 6 Studio
367 History and Philosophy of Art Education (3)
A study of art education as influenced by educational, philosophical and socioanthropological developments throughout history  PREQ 263 363 Spring only

370 Graphic Design Studio Procedures (3)
Equipment materials and procedures of the professional graphic design studio  Focus on creative expression and critical thinking through photomechanical and production techniques of the graphic arts industry  PREQ 270 6 Studio

371 Intermediate Graphic Design (3)
Study of typography’s interface with drawing and photography through an emphasis on contemporary modes of visual communication  Readings research, and discussions related to critical thinking and aesthetic theory  PREQ 270 271 370 or permission of instructor 6 Studio

372 Introductory Photography (3)
Camera operation film processing and darkroom printing combined with classroom critiques emphasis on historical and current trends of black and white photography  Lab fee charged 6 Studio

373 Introductory Illustration (3)
Focus on the development of concepts through methods of visual expression as a means of communicating ideas problem solving approaches with an emphasis on drawing painting color and other modes of illustration  Lab fee charged  PREQ 131 6 Studio

374 Typography (3)
Comprehensive lettering structural arrangements typography and scale phototype setting computer generated type and other procedures in type compositions emphasis on typography in communication by combining theoretical studies with applied problems 6 Studio

379 (ANTH 379) Cherokee Arts and Crafts (3)

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

389 Cooperative Education in Art (1 or 3,R15) See page 123

416 Contemporary Art History (3)
Contemporary directions in the visual arts since 1945 emphasis on trends during the past five years  PREQ 137 or permission of instructor

433 Advanced Painting (3,R6)
Emphasis on the exploration of abstract or figurative modes of painting and critical thinking within a contemporary context  PREQ 333 6 Studio

434 Advanced Printmaking (3,R6)
Study of selected printing media through independent self directed projects under faculty supervision  Lab fee charged  PREQ 334 6 Studio

440 Advanced Drawing (3,R6)
Perceptual and conceptual drawing design problems emphasis on a drawing project augmented by discussion readings and critique  Lab fee charged  PREQ 330 6 Studio

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

451 Advanced Ceramics (3,R6)
Emphasis on personal direction critiques of current work reading in history and criticism  Lab fee charged  PREQ 351 6 Studio
457 Textile Dye Techniques (3)
Batik, plangi, ikat, and other techniques of applying dye designs  
PREREQ  Permission of instructor  6 Studio

458 Hand Papermaking (3,R6)
Dyeing, painting, molding, casting, forming, and other techniques for handmade paper

460 Computer Graphics Practicum (3,R6)
Production and experimentation with computer-generated imagery and investigation of software programs  6 Studio

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  PREREQ 263 363  6 Studio

464 Advanced Glass (3,R6)
Emphasis on personal direction interrelated with regular critiques and the study of contemporary glass  PREREQ 364  6 Studio

470 Package Design (3)
Fundamentals of package design and construction through the use of materials, methods, and graphic procedures. Emphasis on problem solving through experimentation, investigation, and critical interpretation of two- and three-dimensional forms. PREREQ 370 or permission of instructor  6 Studio

471 Advanced Graphic Design (3)
Emphasis on personal exploration of materials and methods related to visual communications  PREREQ 371  6 Studio

472 Intermediate Photography (3,R6)
Emphasis on personal direction and advanced technical problems. Lab fee charged  PREREQ 372 or permission of instructor  6 Studio

473 Intermediate Illustration (3,R6)
Emphasis on personal interpretation and advanced technical solution to guided projects  PREREQ 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. PREREQ  Permission of instructor  6 Studio

476 Advanced Photography (3,R6)
Emphasis on personal interpretation and advanced technical solutions to guided projects. Lab fee charged  PREREQ 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. PREREQ  Permission of instructor  6 Studio

482 Independent Study in Art History (1-6,R6)
PREREQ  Submission of proposal  permission of instructor

483 Art Internship (3,3,3)
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,R7)
Lab fee charged  PREQ  Permission of instructor

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

495 Art History Seminar (3,R6)
Detailed study of a limited topic in art history  PREQ  Permission of instructor junior standing  and 9 hours in art history

Graduate Courses

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Arts and Sciences Interdisciplinary Courses (ASI)

100 Introduction to American Culture (3)
Survey of contemporary American culture  basic history  geography  cultural characteristics  and customs  PREQ  International student or permission of instructor  COREQ  ENGL 130 or permission of instructor

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

293 Special Topics (1 4,R6)

300 University Forum for Contemporary Issues (1,R6)
Issues problems and developments of current interest presented by faculty and occasionally visiting scholars  S/NC grading

301 Introduction to American Studies (3)
The rationale of American studies  emphasis on one period to reveal the interrelationships among the many facets of American culture

393 Special Topics (3,R12)

493 Topics in American Studies (3,R6)
Seminar on particular facets of American culture such as literature and art, philosophy and politics  and folklore and society  PREQ  301

Graduate Courses
593 Topics in American Studies (3 R6)

Astronomy (AST)

101 Descriptive Astronomy (3-4)
Characteristics of solar stellar systems examined in terms of the technologies and attitudes of man  3 Lecture  2 Lab (optional)  (P2)
201 (302) Cosmos (3)
Analysis and evaluation of man's evolving understanding of the universe based on Carl Sagan's Cosmos (F3)

250 General Astronomy (4)
Solar and stellar astronomy including distances, masses, and luminosities of stars recent discoveries. PREQ: MATH 140 or 153. 3 Lecture 2 Lab

301 Modern Astronomy (3)
Techniques of measurement and research. PREQ: 250. 2 Lecture 1 Lab

401 Celestial Mechanics (3)
Orbital mechanics, one and two-body problems, Hamilton Jacobi theory. PREQ: 301 PHYS 231

Graduate Courses
601 Astronomy for Teachers (3)

Biology (BIOL)

101 Biology in the Contemporary World (3) (4)
Concepts derived from cellular, organismic, ecological, evolutionary and cultural perspectives to develop awareness of the human condition. 3 Lecture 2 Lab/discussion/demonstration (optional) (P2)

107 (307) Classical Experiments in Biology (3)
Classical experiments used as the basis for exercises involving analysis of scientific reasoning, the scientific method, and experimental design (F3)

108 Recreational Botany (1)
Identification of native plants on campus and in the field using popular plant guides. Derivation of plant names, food and medicinal uses of plants. Two Saturday hikes required. 2 Field (F5)

130 General Botany (4)
Diversity in plants; structure, phylogeny, classification; life histories and aspects of the physiology of algae, fungi, bryophytes, and vascular plants. 3 Lecture 3 Lab

131 General Zoology (4)
Evolutionary relationships; functional morphology, physiology, and natural history of the major groups of animals. Dissections and other lab exercises emphasize functional morphology. 3 Lecture 3 Lab

132 Human Genetics in Society (3)
Study of the inheritance and development of human characteristics and of the relations 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. Emphasis on photomicroscopy, photomicrography, and field techniques. Two required Saturday field trips. 1 Lecture 6 Lab

232 General Ecology (3)
Ecosystem and population processes; pathways of energy and materials, interactions
between organisms and populations human role in the biosphere  PREQ 130 131 or permission of instructor  2 Lecture  3 Lab

242 Genetics and Evolution (3)
Processes of inheritance and evolution experiments with various animals plants and bacteria  PREQ 130 131 or permission of instructor  2 Lecture  3 Lab

251 Natural History of the Southern Appalachians (4)
Interdisciplinary study of this unique environment on site studies scheduled pack trips  PREQ 130 or 131  2 Lecture  6 Lab

254 Dendrology (4)
Structure distribution identification and economic uses of major forest trees of the United States emphasis on regional species  2 Lecture  6 Lab/field

291 Human Anatomy and Physiology (4,4)
292 The skeletal muscular digestive circulatory respiratory excretory integrative and reproductive systems  3 Lecture  3 Lab

311 Animal Physiology (2)
Principles of homeostasis cell and tissue communication systems contractility respiration excretion and metabolism in animals  PREQ 131  CHEM 136

313 Microbiology in Health and Nutrition (3)
Morphological cultural biochemical and staining characteristics of microorganisms emphasis on those that infect man and occur in water food and dairy products  PREQ Permission of instructor  2 Lecture  3 Lab

315 Introduction to Plant Physiology (1)
Introduction to plant metabolism conduction development, and defense mechanisms  PREQ 130  Chem 136  1 Lecture  1 Lab

333 Cell and Molecular Biology (3)
Viral prokaryotic and eukaryotic cell structure DNA structure and replication RNA and protein synthesis control of gene expression Structure and function of specific cell types  PREQ 130 131 or permission of instructor  2 Lecture  3 Lab

361 (CHEM 361) Principles of Biochemistry (3)

373 Invertebrate Zoology (4)
Morphology physiology behavior ecology and evolution of invertebrates  PREQ 131  2 Lecture  6 Lab

374 Vertebrate Zoology (4)
Morphology physiology behavior ecology and evolution of vertebrates  PREQ 232 242 and 311 or permission of instructor  2 Lecture  6 Lab

389 Cooperative Education in Biology (1 or 3,R15) See page 123

413 Principles of General Microbiology (2)
Survey of microorganisms emphasizing morphology physiology immunology and ecology microorganisms and disease environmental and applied microbiology Not open to students with credit in 313

414 Methods of General Microbiology (2)
Microscopy morphological cultural physiological and serological characteristics of microorganisms microbiology of food milk, water and soil  COREQ 413  6 Lab

415 Plant Physiology (4)
Aspects of plant metabolism water relationships transport development, and defense mechanisms  PREQ 130  Chem 136  3 Lecture  3 Lab

417 Biochemistry (3)
The metabolism of carbohydrates lipids nucleic acids and proteins in plant and animal systems  PREQ 232 242 311 and CHEM 242 271 or permission of instructor
419 Cell Biology (4)
Structure and function techniques for the study of cells
PREQ 311 3 Lecture 3 Lab

425 Flora of the Southern Appalachians (4)
Taxonomy of the flowering plants of the region family relationships use of keys for identification and recognition collection documentation and preservation of specimens One weekend field collecting trip
PREQ 130 2 Lecture 6 Lab/field

434 Terrestrial Ecology (4)
Population ecosystem community structure and dynamics major North American biomes field and descriptive methods required weekend field trips
PREQ 232 242 311 2 Lecture 6 Lab/field

435 Aquatic Ecology (4)
Biological physical and chemical components and processes in lakes and streams field studies of local lakes and their biota
PREQ 232 242 311 2 Lecture 6 Lab

443 Evolutionary Processes (3)
Mechanisms of evolution emphasis on current research and hypotheses such as group and kin selection r and K selection and sympatric speciation
PREQ 232 242 311

451 Biology of Fungi (4)
Slime molds and true fungi life histories morphology host parasite relationship fine structure and phylogeny
PREQ 130

452 Plant Anatomy (4)
Plant cells tissue organization in phylogenetic perspective botanical microtechniques
PREQ 130 3 Lecture 3 Lab

453 Principles of Systematics (4)
Principles and methods used in describing animal and/or plant taxa and in testing hypotheses of evolutionary relationship individual research projects on the systematics of selected taxa
PREQ 242 3 Lecture 3 Lab

455 Vascular Plants (4)
Biology of higher plants club and small club mosses quill worts scouring rushes ferns gymnosperms and angiosperms in living and fossil form
PREQ 232 242 311 3 Lecture 3 Lab

457 Biology of Algae (4)
Life history structure reproduction and phylogeny of the algae
PREQ 130 3 Lecture 3 Lab

466 Aquaculture (1)
An introduction to the concepts upon which commercial practices for the intensive production of fish are based a review of the generic elements involved in aquaculture systems with examples of aquatic farming and examination of problems related to this emerging industry
PREQ 131 232 or permission of instructor

467 Biostatistics (3)
Statistical concepts and methods for biologists especially students planning research problems Design of experiments for computer analysis by ANOVA single or multiple regression principal components An elementary statistics course is recommended
2 Lecture 2 Lab

470 Biology of Arthropods (4)
Functional morphology physiology natural history and systematics of the arthropods field/lab emphasis on spiders
PREQ 131 2 Lecture 6 Lab
471 Animal Behavior (4)
Mechanisms development functional significance and evolution of behavior individual research projects films and discussions in lab PREQ 131 or permission of instructor 3 Lecture 3 lab

475 Animal Development (4)
Development in animals gametogenesis fertilization cleavage gastrulation organogenesis embryonic adaptations differentiation and growth PREQ 311 232 242 3 Lecture 3 Lab

476 Contemporary Fisheries (3)
Biological concepts and alternative management practices involved in the protection conservation restoration augmentation and cultivation of fisheries resources PREQ 131 232 or permission of instructor 2 Lecture 2 Lab

478 Histology (4)
Vertebrate microscopic anatomy emphasis on mammals study of microscopic slides PREQ 131 2 Lecture 6 Lab

480 Research in Biology (2,R6)
PREQ Junior standing permission of research director

493 Studies in Biology (1-6,R12)
PREQ Permission of department head

498 Senior Thesis I (2)
Directed research conducted in the first semester of the senior year PREQ Permission of department head

499 Senior Thesis II (1)
Senior thesis and oral presentation following completion of directed undergraduate research PREQ 498

Graduate Courses
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)
552 Plant Anatomy (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)
575 Animal Development (4)
576 Contemporary Fisheries (3)
578 Histology (4)
593 Advanced Studies in Biology (1 6 R12)
611 Biomembranes (3)
612 Principles of Chemical Ecology (3)
613 Molecular Biology (3)
614 Principles of Chemical Ecology Laboratory (2)
622 Virology (3)
632 Biogeography (3)
642 Developmental Genetics (3)
672 Ichthyology (4)
678 Colloquium in Invertebrate Biology (3)
693 Topics in Biology (1 6 R12)
694
699 Thesis Research (3 R6)

Business Administration (BA)
133 Introduction to Business (3)
Principles of business forms of organizational structure marketing strategies financial institutions quantitative tools management information systems and international implications

304 Business Communications in a Multicultural Environment (3)
Analysis of the multicultural workforce and its impact on the communicating process Studies of effective leadership styles protocols and negotiating skills will be examined through case studies debates and current research
404 Strategic Management (3)
Capstone course integrating all aspects of the business core curriculum using case method term projects and/or computer simulations  PREQ All other business core courses

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

Business Law (LAW)
101 (321) Legal Thought, Reasoning, and Implications (3)
Analysis  synthesis and integration of law and the contemporary legal system through the study of the court's thinking reasoning and expression (F3)

205 (325) Legal Issues and Institutions (3)
Social change through the legal environment legal institutions in various cultures impact on other social institutions interpretation and analysis of interrelationships (Plb)

230 Legal Environment of Business (3)
Social responsibility of business ethics legal concepts legislation and administrative decisions having an impact on business

302 Contemporary Legal Problems (3)
Relationship of law to the structure of society study of prominent court decisions reflecting changes dictated by societal movements civil litigation

303 Consumer Protection (3)
General products liability laws federal and state legislation consumer credit and reporting

305 Jurisprudential Theory (3)
Sources of law natural law case law and legal precedent statutory and constitutional law rights theories classical formalism legal realism critical legal studies the effect of law on management and practice of business  PREQ Junior standing

315 Athletics and the Law (3)
Legal issues and litigation affecting sports

320 Multinational Corporate Law (3)
Problems of multinational corporations in the international legal environment, exports imports and political and legal risks affecting direct investment, consideration of foreign sovereign immunity from legal process international litigation and commercial arbitration  PREQ Law 230 or permission of instructor

331 Business Transactions I (3)
Law of contracts commercial paper security interests in property The Uniform Commercial Code

332 Business Transactions II (3)
Business organizations agency law government regulations legal liability bankruptcy  PREQ 331

389 Cooperative Education in Business Law (1 or 3, R15) See page 123

393 Topics in Business Law (1-3, R6)

403 Property and Estates (3)
Legal aspects of buying and selling real estate federal and state taxation estate planning and administration
405 Rights of the Individual (3)
Philosophical and historical aspects of individual rights interpretation of constitutional provisions as applied by courts in public private and business situations

410 Witnesses and Evidence (3)
Persuasion evidence and presumptions introduction and exclusion of evidence examination opinions and competency of witnesses testimonial and constitutional privileges pre trial communications real scientific and hearsay evidence

412 Business Ethics and Corporate Social Responsibility Theories (3)
Ethical theory and decision making in the market corporation as a moral agent ethics as a component in strategic decision making government regulations and fiduciary obligations

415 Legal Aspects of Business Management (3)
Comprehensive study of legal considerations of 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
485 theory S/U grading PREQ Junior standing 2.0 GPA permission of department head

Minimum of 10 hours per week

Graduate Courses

693 Topics in Business Law (1,3,R6)
650 International Law (3)
695 Seminar in Business Law (3)

Chemistry (CHEM)

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

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

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

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

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

241 Organic Chemistry I (3)
Aliphatic and aromatic compounds of carbon relationships between structure and reactivity PREQ 136
242 Organic Chemistry II (3)
Continuation of 241 introductory theory of instrumentation and applications of spectral methods in structure determination PREQ 241

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

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

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

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

352 Physical Chemistry I (3)
Introduction to chemical thermodynamics and kinetics PREQ 242 MATH 140 or 153

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

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

371 Chemical Dynamics (2)
Measurements and data treatment of the dynamics (e.g. kinetics thermodynamics) of chemical systems Lab fee charged PREQ 370 6 Lab

372 Chemical Syntheses (2)
Multistep synthesis of inorganic and organic compounds Lab fee charged PREQ 370 6 Lab

380 Research in Chemistry (2, R8)
Chemical research projects for individual students PREQ 2 5 GPA in major and permission of instructor 6 Lab

389 Cooperative Education in Chemistry (1 or 3, R15) See page 123

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 spectroscopic methods and nuclear techniques PREQ 370 PREQ or COREQ 352 2 Lecture 3 Lab

441 Advanced Organic Chemistry (3)
Synthetic methods and mechanistic study to include selected topics emphasizing the relationships between structure and reactivity PREQ 242 370

442 Introduction to Organic Polymers (3)
Linear and cross linked polymers selected topics emphasizing relationships between structure and properties PREQ 370
451 Biophysical Chemistry (4)
Applications of the principles and techniques of physical chemistry to the study of biochemical systems  PREQ 271 MATH 140

453 Physical Chemistry II (3)
Quantum mechanics introduction to molecular spectroscopy applications of thermo dynamics  PREQ 352 MATH 255 and PHYS 230

454 Computer Interfacing (3)
Digital logic computer design interfacing with laboratory instruments  PREQ Permission of instructor  2 Lecture 3 Lab

483 Science Internship (3,3,3)
484 Application of academic training in an approved agency under faculty supervision
485 PREQ Junior standing 18 hours of chemistry permission of department head 10 hours per week per course

493 Topics in Chemistry (1 3,R6)
PREQ Junior standing and permission of department head 1 3 Lecture 6 0 Lab

495 Seminar in Chemistry (1,R4)
2 Seminar

Graduate Courses
532 Instrumental Analysis (3)
541 Advanced Organic Chemistry (3)
542 Introduction to Organic Polymers (3)
551 Biophysical Chemistry (4)
553 Physical Chemistry II (3)
554 Computer Interfacing (3)
589 Cooperative Education in Chemistry (3 R6)
593 Topics in Chemistry (1 3 R6)
621 Graduate Inorganic Chemistry (3)
652 Graduate Physical Chemistry (3)
691 Topics in Chemical Education (1 3 R9)
692 Topics in Inorganic Chemistry (3 R6)
693 Topics in Analytical Chemistry (3 R6)
694 Topics in Organic Chemistry (3 R6)
695 Topics in Physical Chemistry (3 R6)
696 Seminar (1 R3)
698 Research in Chemistry (3 R9)
699 Thesis (3 R9)

Cherokee (CHER)
131 Elementary Cherokee I (3)
Audio-lingual practice of basic structures subjective objective and transitive pronouns present and imperfective verb forms uses of the distributive infinitives

132 Elementary Cherokee II (3)
Continued audio-lingual practice of basic imperatives idioms on the imperative stem verbs of motion and locationals and basic complement types  PREQ 131

231 Intermediate Cherokee I (3)
Review and continuation of oral and written grammar selected readings lab practice may be assigned  PREQ 132

232 Intermediate Cherokee II (3)
Readings and discussions on Cherokee culture emphasis on pre Removal culture and its traces in language readings in specialized areas  PREQ 231

351 Phonetics and General Linguistics (3)
Introduction to linguistics the Cherokee sound system from a phonetic and allophonic view grammatical categories morphology syntax  PREQ Permission of instructor

Child Development & Family Relations (CDFR)
261 Dynamics of Marriage and Family Living (3)
Interpersonal relations dynamics of love courtship marriage and parenthood
361 The Child Development Center Environment (3)
The physical, emotional, and social environment suitable for young children. Room arrangement, scheduling, space utilization, and teacher-child interaction.

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

363 Child Development (3)
Physical, emotional, social, and mental development from birth through middle childhood. 2 Lecture 2 Lab

364 Survey of Human Development (3)
The life span: prenatal through death. The social, emotional, cognitive, moral, and physical characteristics of each stage.

389 Cooperative Education in Child Development (1 or 3, R15) See page 123

463 Infancy (3)
Activities and materials that promote infant development during the first 24 months. Dynamics of infant teacher and infant-parent interaction emphasized.

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

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

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

467 Parent Education (3)
Effective child rearing skills. Review of current theories. Research and model parenting programs.

468 Families: Organization and Function (3)
Family organization and function. The family life cycle and areas of adjustment. PREQ 261 or permission of instructor.

469 Family Gerontology (3)
Study of older family members, their relationships, development, life adjustments, and sources of assistance. PREQ 364 or permission of instructor.

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.

485 S/U grading. 9 hours per week per course. PREQ. Permission of instructor.

496 Seminar in Child Development (1)
Consideration of current research emphasis on personal and career development. PREQ 261 361 363

Graduate Courses
565 Day Care Management (3)
567 Parent Education (3)
568 Families: Organization and Function (3)
569 Family Gerontology (3)
660 Theories of Child Development (3)
661 Contemporary Family Systems (3)
693 Topics in Child and Family Studies (1, 3 R6)
Chinese (CHIN)
131 Beginning Chinese I, II (3,3)
Elements of understanding speaking reading and writing Chinese concepts of grammar lab practice required 3 Lecture 1 Lab

Clinical Laboratory Sciences (CLS) (formerly Medical Technology)
275 Introduction to Medical Technology (1)
Introduction to the profession for those planning a career in medical technology emphasis on accreditation certification ethics and job analysis

300 Instrumentation and Blood Collection (1)
Electronics optics and principles of light applied to lab instrumentation trouble shooting and preventive maintenance blood collection and specimen handling PREQ Admission to CLS sequence 2 Lab

301 Analysis of Body Fluids (2)
The physiology and microscopic chemical examination of urine spinal fluid semen and gastric constituents PREQ Junior standing in CLS 1 Lecture 3 Lab

302 Clinical Microbiology (4)
Mechanisms of disease production isolation and identification of organisms using current lab procedures PREQ BIOL 413 414 2 Lecture 4 Lab

303 Basic Hematology (3)
Formation and function of cellular components of blood hematological procedures coagulation PREQ Admission to CLS sequence 2 Lecture 3 Lab

304 Immunology (3)
Host parasite relationships formation and function of antibodies the immune response in disease processes 2 Lecture 3 Lab

305 Clinical Parasitology (2)
Medically important protozoans cestodes trematodes and nematodes encountered in the laboratory PREQ Junior standing in CLS 1 Lecture 3 Lab

306 Immunohematology (4)
The study of blood component therapy PREQ 303 304 CLS major 2 Lecture 4 Lab

307 Medical Mycology (2)
Superficial and systemic mycological diseases methods of isolation and identification PREQ Junior standing in CLS 1 Lecture 3 Lab

308 Advanced Hematology (3)
Hematological states involving classification of anemias leukemias enzyme deficiencies platelet anomalies and coagulation disorders PREQ 303 2 Lecture 3 Lab

309 Clinical Biochemistry (3)
Clinical parameters measuring the biochemical makeup of body fluids results of lab tests related to disease states PREQ CHEM 361 2 Lecture 3 Lab

310 Principles of Clinical Precepting (1)
Study of the principles of presenting bench teaching learning assessment and entry level performance in clinical laboratory teaching PREQ Junior standing in CLS or permission of instructor

389 Cooperative Education in Medical Technology (1 or 3, R12)
PREQ HSCC 389 See page 123

406 Laboratory Management (2)
Organization and administration of the clinical laboratory PREQ CLS major 1 Lecture 2 Lab
Independent Study (1-2)
  PREQ Permission of instructor

Clinical Practicum in Urinalysis (2)
  PREQ 301 6 Clinic

Clinical Practicum in Hematology (3-5)
  PREQ 308 9 15 Clinic

Clinical Practicum in Blood Banking and Serology (3-5)
  PREQ 306 9 15 Clinic

Clinical Practicum in Microbiology (3-5)
  PREQ 302 305 307 9 15 Clinic

Clinical Practicum in Clinical Chemistry (3-5)
  PREQ 309 9 15 Clinic

Clothing, Textiles, and Merchandising (CTM)

Fashion Analysis (3)
  The aesthetic, functional, and economic aspects of fashion apparel creation and selection

Clothing Selection and Construction (3)
  Principles and techniques of fitting, altering, and constructing commercial patterns
  Lecture 3 Lab

Textiles (3)
  Construction properties, recommended uses and care of fibers, yarns, and fabrics
  Applications to consumer purchasing and use of clothing and household textiles

Dynamics of the Fashion Industry (3)
  Comprehensive survey of the scope and operation of the fashion industry

Fashion Buying and Merchandising (3)
  Fundamentals for the successful merchandising of fashion goods
  PREQ 245 or permission of instructor

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

Tailoring (3)
  Selection of patterns and fabrics
  Construction and pressing techniques
  PREQ 141 2 Lecture 3 Lab

Fashion Design Fundamentals (3)
  Applications of design principles in apparel manufacturing using flat pattern techniques
  PREQ 140 141 242 2 Lecture 2 Lab

Merchandising Apparel for Profit (3)
  Principles and practices related to the planning and control of an apparel merchandising operation
  PREQ MATH 101 or equivalent, ACCT 161 or 251

Fashion Promotion (3)
  Methods of promoting fashion merchandise and their interpretation of a fashion story
  PREQ 246 or permission of instructor

Cooperative Education (1 or 3, R15) See page 123
Textile and Apparel Economics (3)
Economic and social aspects of textile and apparel production, distribution and use
PREQ 140 242 ECON 130

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

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

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

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

Internship (3,3,3)
Integration of theory and practice in a setting appropriate to the student's career field
S/U grading 9 hours per week per course PREQ Permission of instructor

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

Communication Disorders (EDCD)

Introduction to Communication Disorders (3)
Overview of speech language hearing disorders in children and adults

Speech and Language Development (3)
Speech and language development in normal children, survey of procedures and tools used to study language development and acquisition

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

The Clinical Process (3)
Orientation to the roles and responsibilities of clinicians in the practice of speech language pathology and audiology
PREQ 270 or permission of instructor

Phonetics (3)
Study of sound feature production, phonetic transcription

Articulation Disorders (3)
The etiology, diagnosis, and treatment of articulation and phonological disorders
PREQ 270 and 370 or permission of instructor

Speech Science (3)
Principles and concepts in speech production and perception, techniques for acoustic analysis
PREQ 370 or permission of instructor

Introduction to Audiology (3)
Fundamentals of audiology, the physics of sound and its measurement, aural anatomy, physiology, etiology, and pathology

Anatomy and Physiology of the Speech Mechanism (3)
Study of the anatomic structures involved in speech and their function in the speech process
474 Voice Disorders (3)
The etiology, evaluation, and treatment of voice disorders. PREQ 471 or equivalent.

476 Language Disorders in Children (3)
Analysis of childhood language disorders, evaluation and implementation of treatment approaches. PREQ 301 or permission of instructor.

478 Fluency Disorders (3)

485 Clinical Practicum in Communication Disorders (1, R2)
Supervised evaluation and intervention with articulation disordered clients. PREQ 370; 1 Lecture, 2 Clinic.

490 Supervised Student Internship (6)
School-based clinical experience under university supervision. Includes preschool placements. PREQ Admission to professional sequence, PSY 320, 321, EDCI 231, COREQ: EDCD 495.

494 Topics in Communication Disorders (1, 3, R6)

495 Seminar in School Practice (3)
Theory, policy, and procedures related to school-based practice. PREQ EDCI 231, EDCD 485, PSY 320, 321.

Graduate Courses
- 572 Aural Rehabilitation (3)
- 574 Voice Disorders (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)
- 655 Pediatric Audiology (3)
- 660 Psychology of the Hearing Impaired (3)
- 661 Private Practice: Design and Operation (3)
- 672 Language Disorders in Adults (3)
- 673 Neurogenic Speech Disorders (3)
- 674 Diagnostics (3)

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

Computer Information Systems (CIS)

251 Management Information Systems (3)
Management information systems in business organizations, analysis, development, design, implementation, and evaluation of computer-based information systems, computer applications in spreadsheets, word processors, and data base systems.

256 Business Computer Programming (3)
Application of programming principles in business, flowcharting, coding, documentation, and testing. Computer architecture and data representation. PREQ 251.

258 Applications Development I (3)
An introduction to the development of business application systems using a traditional business programming language. Students will develop programs using batch processing techniques for data entry, data validation, file updating, and report generation. PREQ 256.

293 Topics in Computer Information Systems (1, 3, R3)

301 Microcomputer Applications (3)
Maximum hands-on experience with microcomputers and software packages including word processing, spreadsheets, data base managers, and graphics systems.
358 Applications Development II (3)  
The study of advanced tools and techniques needed for developing complex business application systems. These techniques for organization of data, on-line processing of data, software engineering, and software maintenance. State-of-the-art development tools are used for building applications. PREQ 258

365 Computer Architecture, Communications, and Operating Systems (3)  
Architecture of modern computer systems including peripherals, data communications and networking with fault tolerant computing language transition, operating systems software, and utilities. PREQ 258

389 Cooperative Education in Information Systems (1 or 3, R15)  
See page 123

451 Operations Analysis and Modeling (3)  
Simulation as a tool in commercial systems random variate generation, normal and gamma distributions, time domain, deterministic and stochastic models, special purpose languages. PREQ 251 ECON 235

453 Database Management Systems (3)  
An in-depth study of database concepts and skills with emphasis on business applications. Fundamentals of database processing, design, implementation, and administration are covered. Students gain hands-on experience designing and implementing a database using a state-of-the-art database management system. PREQ 258

455 Computer Information Systems Analysis and Design (3)  
Systems development requirements analysis, cost/benefit justification, software design, implementation and maintenance procedures, quality assurance, and integration of information systems into management decision making processes. COREQ 453

465 Information Resource Management (3)  
The strategic use of information systems in the business environment, integration of languages, database, communication analysis, and design concepts. Responsibility and accountability of information resource managers, security, legal and ethical issues, procurement and supervision of resources, resource assessment, expert systems applications, and artificial intelligence. COREQ 455

466 Small Business Computing (3)  
Technology software design programming techniques, system design and analysis related to mini and microcomputers. PREQ 251

480 Independent Research in Information Systems (3)  
PREQ CIS major permission of department head

483 Internship in Information Systems (3, 3, 3)  
484 Supervised experience using previously studied theory S/U grading. PREQ Junior standing, 2.00 GPA, written application, and permission of department head. Minimum of 10 hours per week.

493 Topics in Information Systems (1-3, R6)  
PREQ Permission of department head

Graduate Courses
651 Decision Support Systems (3)  
661 Systems Design (3)  
662 Database Management (3)  
682 Research Project in Computer Information Systems (3, R6)  
693 Topics in Information Systems (1, 3, R6)

Computer Science (CS)

101 Computer Concepts (1)  
Computer applications including hands-on experience with word processing, spreadsheet, database management, and graphics. (F4)
141 BASIC Programming (2)
Introduction to BASIC programming: a structured approach to include graphics, arrays, subroutines, and files

150 Computer Science I (4)
Problem solving and algorithm development integrated with a high level language introduction to top-down design, structured programming, style, and documentation. Introduction to hardware and software concepts; legal and social issues. COREQ: MATH 130 or equivalent. 3 Lecture 3 Lab

151 Computer Science II (4)
Algorithm development with dynamic data types, recursion, implementation of elementary data structures, introductory object-oriented programming. Social and legal issues. PREQ: 150. 3 Lecture 3 Lab

240 Scientific Programming (3)
Scientific computer programming in FORTRAN. Not open to students with credit in CS 300 or 301 FORTRAN language. PREQ: MATH 146

250 Introduction to Computer Systems (3)
Computer structure, number representation, and arithmetic. Machine language addressing techniques macros. PREQ: 151

251 Introduction to Computer Organization (3)
Basic digital logic, architecture, and organization of a modern microcomputer. Assembly language addressing techniques macros. PREQ: 150. 2 Lecture 2 Lab

301 High Level Languages (3, R9)
ADA, C, PROLOG, LISP, or other high level languages approved by the department head; can be repeated for credit with different languages. 301 FORTRAN language not open to students with credit in CS 240. Elective credit for CS majors restricted to 3 hours

303 Digital Logic (3)
Combinational and sequential logic; Boolean algebra; TTL and MOS logic devices, microprocessors. PREQ: 251. 2 Lecture 2 Lab

310 (MATH 310) Discrete Structures (3)
Enumeration topics including arrangements, selections; generating functions; recurrence relations; basic concepts of graphs and trees. PREQ: Junior standing or permission of instructor

320 Computers and Society (3)
Brief history of computers; survey of growth of applications and current social issues to include legal issues as they relate to businesses and the individual

351 Data Structures and Algorithm Analysis (3)
Primitive data representation; static and dynamic information storage to include arrays, trees, graphs, stacks, and queues; sorting and searching. PREQ: 151

352 Organization of Programming Languages (3)
Language processors; data and data control operations; sequence control, storage management; operating environment; syntax and translation. PREQ: 250

361 Computer Graphics (3)
Storage tube and raster scan graphics, terminal technologies, language and data structures for graphics 2-D and 3-D graphics, and transformations, plane and space curves, surface generation. PREQ: 150 or 240

362 Files and Data Structures (3)
File structures, including sequential direct and keyed organization; sorting, merging, and searching of information structures. PREQ: 351
389 Cooperative Education in Computing (1 or 3, R15) See page 123

393 Topics in Computer Science (1, 3, R6)
  PREQ Permission of department head

441 (MATH 441) Introduction to Numerical Analysis (3)
  Finite differences interpolation numerical integration and solutions to ordinary differential equations linear systems eigenvalues eigenvectors errors PREQ MATH 254 or MATH 262 MATH 255 and CS 150

443 Automata and Formal Languages (3)
  Phrase structure grammar context free languages finite state machines pushdown acceptors Turing machine recursiveness and computability PREQ MATH 310

451 Algorithms (3)
  Algorithm analysis combinatorics sorting and searching polynomials string matching matrix operations and numerical analysis PREQ 351

452 Computer Organization (3)
  Digital logic and basic structure of computers addressing methods instruction sets microprogrammed control I/O organization arithmetic memory peripherals software computer communications PREQ 251

453 Database Theory and Applications (3)
  Database architecture internal conceptual and external levels modes of database access the relational database model normalization theory the database environment non relational systems PREQ 362

455 Computer Design (3)
  Arithmetic unit control unit memory hierarchy pipelining load balancing parallel computing using various topologies PREQ 251

460 Compiler Construction I (3)
  Grammar and finite state automata parse trees top-down and bottom-up parsing LL(k) and LR(k) grammar syntax directed translation term project PREQ 351

462 Systems Programming (3)
  Computer organization and advanced programming macro instruction language linking high level and assembly language assemblers linkers and loaders PREQ 250

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

464 Microcomputer Development (3)
  Software and hardware development and interfacing for dedicated microcomputer applications PREQ 251 or PHYS 302 or IET 371 2 Lecture 2 Lab

465 Data Communications and Networks (3)
  Communications systems components error detection and correction network protocols PREQ 303 351

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

480 Artificial Intelligence (3)
  Machine intelligence problem reduction state space search game trees expert systems resolution principle introduction to LISP PREQ 351

493 Topics in Computer Science (1-6, R6)
**Graduate Courses**

<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>552</td>
<td>Computer Organization</td>
<td>(3)</td>
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<tr>
<td>555</td>
<td>Computer Design</td>
<td>(3)</td>
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<tr>
<td>560</td>
<td>Computer Construction II</td>
<td>(3)</td>
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<tr>
<td>564</td>
<td>Microcomputer Development</td>
<td>(3)</td>
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<tr>
<td>565</td>
<td>Data Communications and Networks</td>
<td>(3)</td>
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<tr>
<td>580</td>
<td>Artificial Intelligence</td>
<td>(3)</td>
</tr>
<tr>
<td>593</td>
<td>Topics in Computer Science 1-6.R6</td>
<td>(3)</td>
</tr>
<tr>
<td>600</td>
<td>Computer Literacy</td>
<td>(3)</td>
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<td>601</td>
<td>Logo</td>
<td>(3)</td>
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<tr>
<td>602</td>
<td>Structured Basic</td>
<td>(3)</td>
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<tr>
<td>606</td>
<td>Applications to the K 8 Curriculum</td>
<td>(3)</td>
</tr>
<tr>
<td>610</td>
<td>Computing Concepts in Programming</td>
<td>(3)</td>
</tr>
<tr>
<td>611</td>
<td>Data Structures</td>
<td>(3)</td>
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<tr>
<td>612</td>
<td>Introduction to Computer Systems</td>
<td>(3)</td>
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<tr>
<td>613</td>
<td>Organizations of Programming Languages</td>
<td>(3)</td>
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<tr>
<td>614</td>
<td>Introduction to Computer Organization and</td>
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<td></td>
<td>Architecture</td>
<td>(3)</td>
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<tr>
<td>616</td>
<td>Applications to the Mathematics Curriculum-</td>
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<tr>
<td></td>
<td>Grades 9 12 (3)</td>
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<tr>
<td>617</td>
<td>Computers in Secondary Education</td>
<td>(3)</td>
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<tr>
<td>618</td>
<td>Computer Assisted Learning</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**Counseling (COUN)**

**140 Study Techniques for College (1)**

Study techniques and skills for learning and use of the library. Reading, note-taking, and improvement laboratory. 1 Lecture 1 Lab

**150 Understanding Self and Interpersonal Relations (1)**

Study of self qualities and relationships important to successful personal and interpersonal functioning. Participation stressed

**430 Individual and Group Counseling (3)**

Principles and techniques of individual and group counseling. Communication techniques and roles in counseling. Participation in role playing and group processes

**450 Career Development and Guidance (3)**

History of vocational guidance theories. Development of vocational choices, self-interest, aptitude, and other factors in vocational development

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course No.</th>
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</thead>
<tbody>
<tr>
<td>600</td>
<td>Individual and Group Helping Skills</td>
<td>(3)</td>
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<tr>
<td>605</td>
<td>The Helping Relationship</td>
<td>(3)</td>
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<tr>
<td>610</td>
<td>Family Counseling</td>
<td>(3)</td>
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<tr>
<td>615</td>
<td>Multicultural Counseling</td>
<td>(3)</td>
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<td>617</td>
<td>Substance Abuse Counseling</td>
<td>(3)</td>
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<tr>
<td>620</td>
<td>Counseling Children</td>
<td>(3)</td>
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<tr>
<td>623</td>
<td>Introduction to Community Counseling</td>
<td>(3)</td>
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<tr>
<td>625</td>
<td>Counseling Developmental Perspectives</td>
<td>(3)</td>
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<td>630</td>
<td>Theories of Individual Counseling</td>
<td>(3)</td>
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<td>633</td>
<td>Crisis Intervention Counseling</td>
<td>(3)</td>
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<tr>
<td>635</td>
<td>Group Methods in Counseling</td>
<td>(3)</td>
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<td>640</td>
<td>Measurement and Appraisal in Counseling</td>
<td>(3)</td>
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<tr>
<td>645</td>
<td>Consultation</td>
<td>(3)</td>
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<tr>
<td>650</td>
<td>Career Development</td>
<td>(3)</td>
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<tr>
<td>655</td>
<td>Career Counseling</td>
<td>(3)</td>
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<tr>
<td>660</td>
<td>School Counseling Program Development</td>
<td>(3)</td>
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<tr>
<td>670</td>
<td>Research in Counseling</td>
<td>(3)</td>
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<td>680</td>
<td>Independent Study in Counseling</td>
<td>(3)</td>
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<tr>
<td>686</td>
<td>Practicum in Counseling</td>
<td>(3)</td>
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<tr>
<td>687</td>
<td>Internship in Counseling 1-6.R6</td>
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</tr>
<tr>
<td>693</td>
<td>Problems in Counseling</td>
<td>(3)</td>
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<tr>
<td>695</td>
<td>Seminar in Counseling</td>
<td>(3)</td>
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<tr>
<td>699</td>
<td>Thesis (3 R6)</td>
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<tr>
<td>730</td>
<td>Advanced Theory and Techniques in Counseling</td>
<td>(3)</td>
</tr>
<tr>
<td>784</td>
<td>Internship in Counseling</td>
<td>(3)</td>
</tr>
<tr>
<td>786</td>
<td>Advanced Practicum in Counseling</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**Criminal Justice (CJ)**

**250 The Criminal Justice System (3)**

Evaluation of formal institutions dealing with crime in Western culture. Overview of major components of the criminal justice system

**252 The Communication Process in Criminal Justice (3)**

Interpersonal skills in communication, stressing the job skills to improve professional interaction. PREQ 250

**311 The Juvenile Justice Process (3)**

The phenomenon of juvenile delinquency. Evaluation of a unique justice system for children. Related concerns, problems, and expectations. PREQ 250
320 The Law Enforcement Process (3)
Philosophical historical and operational aspects of law enforcement agencies and processes within a framework of social control in a democratic society \textit{PREQ 250}

330 The Judicial Process (3)
State and federal court systems criminal judicial process rights of the individual \textit{PREQ 250}

340 The Corrections Process (3)
Examination of modern corrections through review of penal history theory and practice \textit{PREQ 250}

350 Criminal Justice Theory (3)
Theories of law justice punishment, and crime causation \textit{PREQ 250}

352 Criminal Justice Planning (3)
Planning as a process of criminal justice decision making using contemporary methods and techniques \textit{PREQ 252}

370 Ethics in Criminal Justice (3)
Examination of ethical issues in the criminal justice field \textit{PREQ 250}

389 Cooperative Education (1 or 3, R15)
See page 123 Credit will not be given for both 483 and 389

404 Substantive Criminal Law (3)
The nature and definition of substantive criminal offenses examination of federal and state law principles of criminal liability defenses and complicity \textit{PREQ 250}

406 Legal Aspects of Law Enforcement Administration (3)
Procedural aspects of statutory and case law affecting the administration of law enforcement and the control of police conduct

410 Victimology (3)
A study of the experiences of crime victims with the criminal justice system as well as victim characteristics vulnerability and culpability \textit{PREQ 250}

420 Criminal Investigations (3)
An analysis of methods used in conducting criminal investigations

423 Criminalistics (3)
A survey of methods and techniques used in the scientific investigation of criminal offenses

424 Probation and Parole (3)
Development, organization operation and results of probation and parole systems as substitutes for incarceration

425 Police Tactical Theory (3)
Theories related to the development of police policy concerning appropriate responses to dangerous and potentially lethal confrontations

430 Criminal Evidence (3)
Examination of the rules of evidence and courtroom procedures in criminal trials

440 Organized Crime (3)
Examination of traditional and emerging organized crime groups and their impact on society and the criminal justice field

454 Comparative Criminal Justice Systems (3)
Law enforcement and correctional and court subsystems in the Western world today

460 Drug Abuse (3)
An examination of drugs of abuse and the evolution of drug laws law enforcement and correctional responses for drug offenders
480 Independent Study in Criminal Justice (1 3,R6)

482 Senior Directed Research (3)  
Directed research/independent study in criminal justice  PREQ  352

483 Internship in Criminal Justice (3 12,R12)  
Supervised applications of academic study in a practical criminal justice setting  S/U  
grading  Credit not given for both 389 and 483  PREQ  Junior standing  permission  
of department head  3 hours per credit hour

493 Topics in Criminal Justice (1-3,R12)  
PREQ  Approval of department head

495 Seminar on Criminal Justice Problems (1 3,R6)  
PREQ  Approval of department head

Graduate Courses
524 Probation and Parole (3)  640 Correctional Administration (3)
593 Topics in Criminal Justice (1 3 R9)  680 Independent Study in Criminal Justice (3 R6)
620 Law Enforcement Administration (3)

Curriculum and Instruction (EDCI)

200 Seminar in Leadership Development (1,R4)  
Leadership development through seminars with university and public school profes  
sionals  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  2Lab

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)  605 Foundations of Modern Education (3)
506 Contemporary Philosophies of Education (3)  606 Statistical Analysis in Research (3)
580 Reading and Research in Education (3)  609 Educational Tests and Measurements (3)
595 Seminar in International Understanding (3)  693 Topics in Education (1 R3)
601 Educational Sociology (3)  699 Thesis (4)
602 Methods of Research (3)  700 Philosophy of Education (1 1)
603 Comparative Education (3)  702 Research Seminar in Curriculum (3)
604 Curriculum Development (3)

Earth Sciences (ESI)

471 Field Studies of Selected Regions (3,R6)  
Interdisciplinary group project on a designed region  a two week field trip following  
spring final exams  Cost to be determined  PREQ  Junior standing  GEOL 150 or  
GEOG 150 and permission of instructor

Economics (ECON)

103 (311) Economics of Comparative Cultures (3)  
Analysis of the effects of differing institutions and values in various cultural systems on
the level of output or per capita income including ownership of the means of production economic activities and incentives and price making forces (P4)

104 (312) Contemporary Economic Institutions (3)
Examination of changes in Western economic institutions interrelationships of economic social and political changes impact of changes on decision making economic policy options and current issues (Plb)

108 (313) The Perfect Society (3)
The application of skills in thinking reasoning and expressing through the exercise of developing a Perfect Society (F3)

130 Survey of Economics (3)
Principles of micro and macro-economics market system analysis of current economic conditions fiscal and monetary policy Not open to students with credit in 231 or 232

231 Introductory Microeconomics and Social Issues (3)
Microeconomic principles the market system supply and demand pricing market structures resources markets

232 Introductory Macroeconomics and Social Issues (3)
Macroeconomic principles alternative theories of economic instability national income fiscal policy monetary policy and international trade

235 Statistics (3)
Measures of central tendency probability analysis inferences to populations from large and small samples using univariate bivariate and multivariate distributions PREQ MATH 130

302 Economics of the Firm (3)
The price mechanism and allocation of resources under competition monopoly and imperfect competition applications to decision making PREQ 231 232 MATH 130

303 Money, Financial Markets, and Economic Policy (3)
Monetary systems and standards factors determining money supply the role of commercial and central banks PREQ 231 232

304 Business Conditions Analysis (3)
Evaluation of business indicators techniques for analyzing current business conditions and forecasting changes in levels of national economic activity PREQ 231 232 235

305 Public Finance (3)
Governmental expenditures sources of revenue public credit, principles and methods of taxation and financial administration fiscal policy

306 Economics of Transportation (3)
Characteristics and problems of intercity transportation modes and agencies PREQ Any 3 hours in economics

307 Regional Economic Analysis (3)
Regional structure and growth location theory interregional income theory factory mobility public policy for regional development PREQ Any 3 hours in economics

308 Government and Business (3)
Governmental regulation of business evolution of control methods and agencies PREQ Any 3 hours in economics

309 International Economics (3)
Trade patterns among nations effects of trade on participant countries tariffs and
quotas balance of payments exchange rates international monetary system  PREQ 231 232

310 Natural Resource Economics (3)
Economic policy regarding renewable and nonrenewable resources environmental and energy economics  PREQ 130 or equivalent

389 Cooperative Education in Economics (1 or 3,R15)  See page 123

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)
608 Business and Managerial Forecasting (3)
609 International Economics (3)

682 Research Project in Economics (3,R6)
690 Topics in Economics (3,R6)

Education and Psychology (EDPY)

493 Topics in Education and Psychology (1-3,R6)

Graduate Courses
591 Topics in Education and Psychology (1 R3)
592 Topics in Education and Psychology (2,R6)
593 Topics in Education and Psychology (3,R6)
691 Topics in Education and Psychology (1,R3)

692 Topics in Education and Psychology (2,R6)
693 Topics in Education and Psychology (3,R6)
793 Topics in Education and Psychology (3 R12)

Educational Administration (EDAD)

Graduate Courses
600 Theory and Foundations of School Administration (3)
610 The Principalship (3)
620 School Law (3)
630 School Finance and Business Management (3)
640 School Plant Planning and Management (2)
650 School Personnel Administration (3)
660 School Community Relations (2)
680 Problems in School Administration (1,R3)
681 Independent Study (1)

684 Elementary Principal Internship (1)
685 Secondary Principal Internship (1)
693 Topics in Administration (1,R3)
695 Seminar in the Principalship (2)
700 The Superintendency (3)
710 (EDHE 710) Administration of Two Year Colleges (2)
720 The Politics of Educational Decision-Making (3)
783 Internship in School Administration (2)
795 Seminar in School Administration (2)
### Educational Supervision (EDSU)

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<th>Course Code</th>
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<th>Credits</th>
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<td>Principles of Supervision (3)</td>
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<td>Techniques of Supervision (3)</td>
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<td>School Based Instructional Leadership (3)</td>
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<td>Supervision of the Novice Teacher (3)</td>
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<td>Leadership for Educational Programs (3)</td>
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</table>

### Electronics Engineering Technology (EET)

#### 231 Circuit Analysis I (4)
Introduction to fundamental electrical and electromagnetic theory with laboratory confirmation of mathematical solutions involving DC circuits. PREQ MATH 145
- 146 Lecture 2 Lab

#### 232 Circuit Analysis II (4)
Continuation of 231 with AC circuits. PREQ 231
- 3 Lecture 2 Lab

#### 300 Electrical Motors and Controls (3)
A study of AC and DC machines and the circuits that control them. PREQ 232
or IET 370 or permission of instructor

#### 311 Solid State Devices (4)
Theory of discrete semiconductor devices and their applications. PREQ 232
- COREQ IET 150 3 Lecture 2 Lab

#### 312 Analog Integrated Circuits (4)
Study of analog circuits including amplifiers, regulators, interface circuits, and special applications. PREQ 311
- 3 Lecture 2 Lab

#### 321 Digital Integrated Circuits I (4)
Study of combinational and sequential digital circuits using integrated circuit techniques. COREQ 231
- CS 150 3 Lecture 2 Lab

#### 322 Digital Integrated Circuits II (4)
Continuation of 321 including the study of digital system organization and design. PREQ 321
- 3 Lecture 2 Lab

#### 341 Advanced Circuit Analysis (3)
Study of linear systems, introduction to digital signal processing. PREQ 232 MATH 153
- COREQ MATH 255

#### 431 Microprocessor Fundamentals (4)
Study of microprocessor fundamentals including integrated circuit architecture, instruction sets and machine assembly language programming. PREQ 321
- 3 Lecture 2 Lab

#### 432 Microprocessor Applications (4)
Continuation of 431 including the study of interfacing of microprocessor and integrated circuits into complex systems. PREQ 431 or equivalent
- 3 Lecture 2 Lab

#### 451 Control Systems (3)
Fundamental principles of control theory and instrumentation with particular applications in manufacturing processes. PREQ 312 321 341

#### 462 Communication Systems (3)
A study of information transmission and modulation systems. Includes both analog and digital techniques used in radio and data communications. PREQ 311 312 321

#### 478 Senior Design Project Proposal (1)
Research methodology, literature review, and industrial writing styles culminating in a written report proposal for a senior project. S/U Grading. PREQ Senior standing and permission of instructor
479 Senior Design Project (3)
Organizing, planning, and implementing a project using acceptable industrial techniques culminating in a formal written report and oral presentation. PREQ or COREQ 478 1
Lecture 4 Lab

493 Special Topics (1-3; R6)
PREQ: Permission of instructor

**Elementary Education (EDEL)**

230 Introduction to Teaching (2)
Teaching as a profession: the role and function of the teacher in the school and community; recommended for any student considering teaching as a career

303 Literature for Children and Youth (3)
Teaching literature in the elementary and middle grades schools: function of literary experiences in the total language arts program. PREQ: Admission to the professional education sequence

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

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

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

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

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

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

390 Practicum I, II (1-2)
Supervised observation and participation in a public school classroom. PREQ: Admission to professional education sequence and permission of instructor. One day per week for 390; two days per week for 391

465 Teaching the Child in Crisis (3)
Exploration of crisis situations to improve teacher competency, methods for dealing with the child in crisis at various developmental levels

466 Computers in Education (3)
The use of computers in school settings. Emphasis on instructional applications, issues, and trends

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

476 Discipline and Classroom Control (2)
Methods, techniques, and theories of classroom control. Emphasis on Glasser Assertive Discipline, TET, TA, and behavior modification. COREQ: 490-495
486 Field Experience in Teaching (3, R6)
Supervised experience for a second teaching certification or for an initial certification for individuals who are employed as full-time teachers 9 hours per week.

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

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

**Graduate Courses**

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<thead>
<tr>
<th>Course Code</th>
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<tbody>
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<td>Teaching the Child in Crisis (3)</td>
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<td>Computers in Education (3)</td>
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<td>Adolescent Literature (3)</td>
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<td>Discipline and Classroom Management (3)</td>
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<td>Independent Study (3)</td>
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<td>Topics in Elementary Education (3)</td>
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<td>Elementary School Curriculum (3)</td>
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<td>Individualizing Instruction (3)</td>
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<td>Mathematical Problem Solving in Elementary/Middle School (3)</td>
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<td>Diagnosis and Remediation in Elementary/Middle School Math (3)</td>
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<td>Logo for Teachers (3)</td>
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<td>Issues and Trends in Early Childhood Education (3)</td>
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<td>Issues and Trends in Intermediate Education (3)</td>
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<td>Curriculum for Middle Grades Education (3)</td>
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<td>620</td>
<td>Philosophy and Mission of Middle Grades Education (3)</td>
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<td>Teaching Learning Strategies for the Middle Grades (3)</td>
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<td>Kindergarten Administration and Supervision (3)</td>
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<td>Projects in Educational Computing (3)</td>
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<td>Practicum in Elementary Education (1, 3)</td>
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<td>Instructional Leadership in Elementary Schools (3)</td>
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<td>Workshop in Elementary Education (3)</td>
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<td>Independent Study (1, 3, R6)</td>
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<td>798</td>
<td>Advanced Research Seminar in Middle Grades Education II (3)</td>
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**Emergency Medical Care (EMC)**

340 Fundamentals of Advanced Life Support (3)
The role and responsibilities of the paramedic. Basic medical terminology, patient assessment including history taking and physical examination techniques. PREQ EMC major or permission of program director. 2 Lecture 2 Lab.

350 Cardiology (3)
Electrocardiography interpretation and treatment of cardiac arrhythmias, pathophysiology, assessment, and treatment of cardiac emergencies. PREQ 340 or permission of instructor.

360 Acute Respiratory and Fluid Disorders (3)
Pathophysiology, assessment, and treatment of respiratory emergencies, fluid and electrolyte balance, and imbalance manifestations of shock techniques of IV therapy, MAST EOA, and endotracheal intubation. PREQ 340 HSCC 370. 2 Lecture 2 Lab.

370 Medical Emergencies (3)
Assessment and management of central nervous system disorders, diabetic emergencies, exposure to environmental extremes, substance abuse, poisoning, acute abdomen and genito-urinary problems. PREQ 340 and HSCC 370 or permission of program director.

382 Clinical Practicum I (1)
Experience to develop patient assessment skills. PREQ 340 or permission of program director. 4 Lab.

389 Cooperative Education in EMC (1 or 3, R12)
PREQ HSCC 389 See also page 123.

410 Trauma Management (3)
Assessment and management of traumatic emergencies including patient access stabilization and transport, radio communications, and use of ALS protocols. PREQ 360. 2 Lecture 3 Lab.
420 Maternal and Child Emergency Care (3)
Obstetrical, gynecological and pediatric emergencies  PREQ 340 and HSCC 370 or permission of program director

430 Special Needs Patients (2)
Assessment and emergency care of the elderly and handicapped  PREQ 360 or permission of program director

452 Advanced Cardiac Life Support (1)
The American Heart Association course leading to certification in advanced cardiac life support  PREQ 483 or permission of program director

482 Independent Study in Emergency Medical Care (2)
PREQ Permission of instructor

483 Clinical Practicum II (4)
Experience to develop clinical competency in advanced life support assessment and skills  PREQ 350 360 370 122 Lab

484 Clinical Practicum III (3)
Advanced clinical rotations in a hospital setting  PREQ 410 420 483 PSY 460 9 Lab

485 MICU Practicum (3)
Supervised field experience on mobile intensive care units  PREQ 410 420 483 9 Lab

487 Advanced MICU Practicum (2,R8)
Supervised field experience on mobile intensive care units to review update and maintain skills  PREQ 485 or current paramedic certification permission of program director 8 Field

488 EMC Management Internship (2,R4)
Supervised management experience with an approved emergency medical service provider or regulator  PREQ EMC major and permission of program director 5 weeks full time

496 Emergency Medical Care Seminar (1)
Trends and issues in emergency medical services

English (ENGL)

100 Basic Writing Skills (3)
Students with insufficient preparation in English as determined by placement scores must pass this course before enrolling in 101 Credit earned in this course will not count toward 128 hours required for graduation

101 Composition I (3)
Assigned readings writing exercises emphasizing organization and development of formal compositions  PREQ Satisfactory placement score or pass ENGL 100 (F1)

102 Composition II (3)
Writing exercises based on the critical analysis of literary selections and other appropriate models techniques of library research and documentation  PREQ 101 (F1)

Note ENGL 101 and 102 must be taken and passed in sequence These courses are prerequisite to all courses in English above the freshman level

130 Intensive English I, II, III, IV (3,3,3,3)
131 Speaking listening reading writing and grammar for non native speakers study of
132 American culture 130 131 or 132 133 may be scheduled concurrently during a regular
133 semester  PREQ Permission of instructor 2 Lecture 2 Lab 2 Drill
136 Basic English for Non-Native Speakers (3)
Composition reading listening and speaking for non native speakers
PREQ English placement test

201 Literary Landmarks in Western Culture (3)
Systematic study of the human attitudes of classicism romanticism and realism their
causes effects and expression in Western culture as reflected in major literary
works (P5)

203 Major American Writers (3)
Selections from the works of Franklin Poe Thoreau Melville Hawthorne Whitman
Dickinson Twain Fitzgerald Frost Hemingway Faulkner and others (P3a)

204 Cultures in Contact and Collision (3)
Examination of what happens when differing cultures meet or converge as reflected in
literature written and on film literature as a key to better understanding of cultures
differing markedly from our own (P4)

251 Survey of English Literature I (3)
Major periods of English literature from the beginnings through the 18th century
emphasizing backgrounds and styles characteristic of each period

252 Survey of English Literature II (3)
Major periods of English literature from the 19th century through the present, empha-
sizing backgrounds and styles characteristic of each period

300 Foundation Composition (3)
Required of transfer students who fail the English Proficiency Examination and of any
undergraduate who receives two Composition Condition marks

303 Introduction to Writing and Editing (3)
Survey of career opportunities professional practices technical devices in fiction and
nonfiction preparation of manuscripts copyright law

305 Technical Writing (3)
Organizing and writing technical instructions specifications definitions descriptions
written analysis of data summaries and processes

306 Nonfiction Writing (3)
Study and practice of technique and form in nonfiction writing emphasis on magazine
articles interviews profiles reviews and longer prose pieces analysis of nonfiction
markets and professional practices PREQ 303 or permission of instructor

307 Editing and Publishing Practices (3)
Survey of customary practices copy editing layout, printing and other processes in
magazine and book production

308 Fiction Writing (3,R6)
Study and practice of technique and form in fiction writing workshop discussion of
students' stories and assigned exercises original work and revision PREQ 303 or
permission of instructor

309 Poetry Writing (3,R6)
Study and practice of technique and form in poetry writing emphasizing traditional as
well as free verse analysis of contemporary poetry students poetry read for class
criticism PREQ 303 or permission of instructor

311 History of the English Language (3)
Origins and development of the English language from the beginnings to the present

312 Grammar for Writing (3)
Standard written American English as dictated by current editorial practice
314 Methods for Teaching English (3)
Methods materials curriculum and trends in teaching in the secondary schools  
PREQ Admission to the teacher-education program

330 Introduction to Literary Interpretation (3)
Application of major critical approaches to the study of fiction poetry and drama

333 Introduction to Shakespeare (3)
General survey of Shakespeare's life times and most popular plays not applicable to English major

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

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

370 The Short Story (3)
History and development of the short story in Western literature

389 Cooperative Education Writing/Editing (1 or 3,R15)
PREQ 303 See page 123

401 Writing for the Professions (3)
Study and practice of technique and form in writing for business industry and the professions organizing drafting and revising writing of all lengths

405 Advanced Creative Writing (3)
Intensive study and practice of creative writing emphasis on required individual projects PREQ Satisfactory writing sample and permission of instructor

412 Modern English Structure (3)
Application of linguistics to the study of English comparison of approaches to the study of grammar

414 Fundamentals of Teaching Composition (3)
Contrastive analysis of teaching approaches the process rhetorical and linguistic/stylistic approaches

415 Linguistics (3)
The world's languages their sound systems word systems and sentence patterns relationships to culture and the mind PREQ Permission of instructor

416 Teaching English as a Second Language (3)
Current trends and strategies measuring proficiency and progress adapting instructional materials in content areas aspects of American culture and language that affect language learning PREQ 415 or permission of instructor

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

420 Chaucer and his Age (3)
Chaucer's major poetry emphasis on Troilus and Criseyde and The Canterbury Tales selected readings from the works of contemporaries

430 English Literature of the Renaissance (3)
Representative Tudor and Jacobean prose and nondramatic poetry

431 Shakespeare and his Age (3)
440 Milton and his Age (3)
Milton's major poems selections from his prose readings from works of contemporaries

441 The Age of Pope, Swift, and Johnson (3)
Selections from the works of Pope Swift Johnson and their contemporaries

450 Major British Writers (3,R9)
Selected works of one or more important authors from a single historic period

451 Nineteenth Century British Writers (3)
The poetry and fiction of the major Romantic and Victorian authors including Wordsworth Coleridge Keats Shelley Tennyson Browning Arnold and Dickens

455 The English Novel (3)
Selected 18th/19th century novels of such writers as Defoe Richardson Fielding Smollet Austen Scott Dickens Thackeray and Hardy

463 American Literature Since 1945 (3)
Post World War II American literature and its influences from other nationalities especially those of Latin America and Canada. Such writers as Barth Bartholomé García Marquez Sexton and Walcott, among others will be considered. Juniors will be allowed to enroll.

470 Twentieth Century Commonwealth Literature (3)
Poetry fiction and drama from the most prominent writers in those countries in which English is a common medium for literature

471 Modern Poetry (3)

472 Modern Fiction (3)

473 Modern Drama (3)

475 The American Novel (3)
Selected novels of major American writers

477 Literature and Gender (3)
Study of literature by or about women the relationship of men and women in literature feminist issues from a literary perspective. PREQ Senior standing

478 Film as Literature (3,R9)
Study of film from selected times and of selected types special attention to literary features such as theme plot and characterization and to cinematic features

479 Studies in British and American Literature (3,R6)

480 Studies in English (1 3,R 6)
Independent study/directed research in English. PREQ Permission of instructor and department head

483 Writing Internship (3,3,3)
Practical experience in a writing related setting. S/U grading. PREQ 303 9 hours per week per course

484 Writing Internship (3,3,3)

493 Topics in Creative Writing (1 3,R6)
Study and practice of writing in a special area e.g. the novel, drama, science fiction juvenile literature. PREQ 303 or permission of instructor

494 Special Topics in ESL (3,R6)

496 Seminar in Comparative Literature (3)
Literary classics in translation
497 Senior Seminar in Writing (3)
Capstone course for the writing/editing concentration  PREQ Senior standing

498 Senior Seminar in Literature (3)
Capstone course for the literature concentration  PREQ Senior standing

Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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<td>Writing for the Professions</td>
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<td>505</td>
<td>Advanced Creative Writing</td>
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<td>512</td>
<td>Modern English Structure</td>
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<td>514</td>
<td>Fundamentals of Teaching Composition</td>
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<td>Linguistics</td>
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<td>Teaching English as a Second Language</td>
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<td>Literary Research and Bibliography</td>
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<td>Chaucer and his Age</td>
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<td>English Literature of the Renaissance</td>
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<td>Shakespeare and his Age</td>
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<td>The Age of Pope Swift and Johnson</td>
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<td>Major British Writers</td>
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<td>The English Novel</td>
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<td>American Literature Since 1945</td>
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<td>The American Novel</td>
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<td>Literature and Gender</td>
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<td>621</td>
<td>English Literature to 1500 Exclusive of Chaucer</td>
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<td>631</td>
<td>Shakespeare</td>
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<td>640</td>
<td>English Literature of the Enlightenment</td>
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<td>651</td>
<td>The Major Romantics</td>
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<td>661</td>
<td>American Literature of the Romantic Period</td>
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<td>662</td>
<td>American Literature since 1855</td>
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<td>691</td>
<td>Topics in English Linguistics (3,R6)</td>
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<td>692</td>
<td>Studies in Renaissance Literature</td>
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<td>Topics in Literary Criticism (3,R6)</td>
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<td>Topics in 17th and 18th Century Literature (3,R6)</td>
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<td>Studies in 19th Century British Literature (3,R6)</td>
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<td>Topics in American Literature (3,R6)</td>
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<td>Topics in Modern British/American</td>
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<td>698</td>
<td>Studies in Rhetoric (1 3 R6)</td>
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<td>699</td>
<td>Thesis (3 R6)</td>
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Environmental Health (HSEH)

230 Introduction to Environmental Health (3)
Survey of the concept of community health as related to man's environment and the role of the environmental health specialist

310 Water Supply and Waste Water Treatment (4)
Sanitary techniques for collection disposal and management of water wastes source chemical and bacteriological quality  PREQ Environmental health major  3 Lecture 2 Lab

312 Solid Waste Management (2)
Sanitary techniques for management, collection and disposal of solid wastes  PREQ Environmental health major

320 Shelter Environment (4)
Environmental and health concerns related to shelter individual and mass units generalized approach to construction sanitation energy control and other facets  PREQ Environmental health major  3 Lecture 2 Lab

330 Food and Milk Control (4)
Food borne disease and regulation programs relative to sanitary inspection and control of food service and processing systems  3 Lecture 2 Lab

375 Environmental Toxicology (3)
The monitoring effects and control of toxic materials in the environment Mechanisms of action of toxic chemicals in humans and other organisms including food chain bioaccumulation and the use of bioassays to develop regulations biomedical aspects of toxins including carcinogenesis teratogenesis and toxic effects of heavy metals  PREQ 230 CHEM 135 136 133 or consent of instructor

386 Field Practicum in Environmental Health (3)
Experience in an area studied during the junior year written report required  PREQ Environmental health major  9 weeks full time

389 Cooperative Education in Environmental Health (1 or 3,R12)
PREQ HSCC 389 See also page 123
430 Medical and Veterinary Entomology (4)
Vectors responsible for arthropod borne diseases of medical and veterinary importance
PREQ Permission of instructor 2 Lecture 4 Lab

440 Air Quality Control (4)
Evaluating and monitoring air quality effects of pollution control and lab procedures in air quality investigation
PREQ Environmental health major 3 Lecture 2 Lab

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

455 Recreational Sanitation (3)
Sanitation problems in recreational facilities emphasis on swimming pool operation and other outdoor areas
PREQ Environmental health major or permission of instructor

457 Industrial Hygiene (3)
Health aspects of industry relative to the environmental factors of shelter waste and air
PREQ Environmental health major or permission of instructor

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

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

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

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

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

483 Environmental Health Internship (3)
Supervised experience in an approved clinical or environmental health facility
PREQ Environmental health major or permission of instructor 9 weeks full time

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

Finance (FIN)

300 Security Analysis (3)
Evaluation of company fundamentals technical analysis of the stock market interpretation and utilization of charts bonds and mortgage backed securities
PREQ ACCT 252 and ECON 232

302 Real Estate (3)
Financing sources of funds loan contracts mortgage analysis role of government real estate law

305 Financial Management (3)
Financial analysis and planning capital management and budgeting acquisition of funds dividend policy
PREQ ACCT 161 or 252 ECON 231 232
325 Futures and Options Markets (3)
Evolution operation and uses of futures and options markets analysis of commodity financial foreign exchange and stock index futures and options PREQ ECON 231 232

335 Commercial Banking and Financial Institutions (3)
Firms in the financial service industry their organizations and functions PREQ 305

389 Cooperative Education in Finance (1 or 3,R15)
PREQ 2.0 GPA on courses in business See also page 123

400 Insurance Planning (3)
Principles of risk bearing and risk analysis economics of risk and insurance PREQ 305

401 Life Insurance (3)
Functions and uses of life insurance contract analysis legal aspects group policies

403 Real Estate Brokerage and Finance (3)
Law of agency theories of value real estate finance PREQ 302

405 Corporate Financial Decisions (3)
Sources and forms of long term financing financial structure dividend policy timing of financial policy mergers and failure PREQ 305 COREQ ACCT 301

406 Investment Strategies (3)
Investments for individuals institutions and business securities and securities markets PREQ 305

407 Multinational Business and Finance (3)
Country risk financing foreign trade currencies foreign exchange markets and controls rates of exchange investment and lending PREQ 305

409 Entrepreneurial Finance (3)
Problems in cash management financing small business problems associated with new ventures PREQ 305 MGT 401

480 Independent Research (3)
PREQ Permission of department head

493 Topics in Finance (1-3,R6)
PREQ Permission of department head

495 Seminar in Financial Management (3)
Analysis of problems in business finance using the case method PREQ 305 COREQ ACCT 301 and FIN 405 or permission of instructor

496 Seminar in Financial Planning (3)
Integration of alternative investment instruments and opportunities tax planning and strategies retirement and estate planning with computer software applications PREQ 305 and 406

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

130 Introduction to the Hospitality Industry (2)
Survey of management specialties in the industry, emphasis on food systems administration, current trends and problems

333 Quantity Foods (3)
Methods of quantity food production, planning, purchasing, storing, preparing and serving foods. PREQ: Permission of instructor. 2 Lecture, 3 Lab

389 Cooperative Education in FMS (1 or 3,R15) See page 123

430 Food Systems Management I (3)
Functions of management applied to food service systems, emphasis on food service equipment, layout and design, menu development, procurement and production management. PREQ: 333 COREQ: MGT 300

432 Food Systems Management II (3)
Functions of management applied to food service systems, emphasis on planning, marketing, personnel, cost control and computer applications. PREQ: 430

480 Independent Study in Food Service Management (1-3,R6)
PREQ: Permission of instructor

483 Internship (3,3,3)
484 Integration of theory and practice in a setting appropriate to the student's career field
485 S/U grading. PREQ: Permission of instructor. 9 hours per week per course

Graduate Courses
532 Food Systems Management II (3)

Forestry (FOR)

131 Introduction to Forest Resources (3)
The profession of forestry, its scope and opportunities, forest resource conservation and utilization, field exercises in forestry practices. PREQ: Preforestry major

French (FREN)

101 French Language and Culture (3)
Elements of understanding, speaking, reading and writing French, concepts of grammar. Lab practice required (P3a)

105 The French-Speaking World (3)
Study of French culture and its relationship to the cultures of countries and regions where French is spoken (P4)

110 Intensive French I (6)
Developing skills in understanding, speaking, reading and writing, emphasis on oral aspects. Rassias Method. Three hours credit only applicable to general education. PREQ: Permission of instructor. 4 Lecture, 3 Lab, 5 Drill (P3a)

132 Elementary French (3)
PREQ: Placement or permission of department head

133 French for Travelers (2)
A practical guide to travel in French speaking countries, basic conversational French tourist information and travel facts
231 Intermediate French I, II (3,3)
Continuation of written and oral French grammar readings and discussions on French culture and civilization readings in more specialized areas lab practice may be assigned PREQ 132 or equivalent or placement for 231 231 or equivalent or placement for 232

240 Intensive French II (6)
Continuation of 110 increased emphasis on reading and writing PREQ Permission of instructor 4 Lecture 5 Lab 5 Drill

301 French Composition (3)
PREQ 232 or equivalent or placement

302 Conversational French (3)
Advanced intermediate course emphasizing topical dialogue PREQ 232 or equivalent or placement

303 Applied French Conversation (3,R6)
Apprenticeship in the intensive language program PREQ 232 or 240 sophomore standing selection by faculty 10 Lab

304 Commercial French I, II (3,3)
305 Review of vocabulary and styles used in French business letters various aspects of French business institutions PREQ 232 or 240

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K 12 PREQ Admission to professional sequence or permission of instructor

321 French Civilization I, II (3,3)
322 Geographical, political, cultural and historical aspects of France from its origins to the present course division at French Revolution PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

331 Survey of French Literature I, II (3,3)
332 The main literary movements authors and works since the 12th century course division at the 18th century PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

335 Introduction to French Prose and Poetry (3)
Introduction to French literary texts reading and analysis of literary works PREQ 232 or 240

351 French Phonetics and General Linguistics (3)
The French sound system drill in pronunciation articulation intonation and rhythm introduction to linguistics PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

371 Twentieth Century French Novels in Translation (3)
Selected works by Proust Gide Mauriac Camus Saint Exupery and Colette No knowledge of French required not open to French majors

389 Cooperative Education in French (1 or 3,R15)
PREQ 301 302 See page 123

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

103 (303) Cultural Geography (3)

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, CO, 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 with 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 105 desirable. 3 Lecture 2 Lab.

326 Research Methods in Geography (3)
Methods of measurement, observation, recording, analysis, and synthesis of data field and lab photography, computer statistical packages, library research. PREQ MATH 170, 171, and permission of instructor. 1 Lecture 4 Lab.

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

389 Cooperative Education in Geography (1 or 3, R15)
See page 123.
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

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

Advanced Remote Sensing (3)
Interpretation and application of remotely sensed data on the earth's physical and cultural environments major project required PREQ Permission of instructor 6 Lab

Topics in Regional Geography (3,R12)
Physical economic and social aspects of the geography of a selected region (Asia, Europe, USSR, Africa, North America, Middle East, Latin America)

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

Urban and Regional Land Use Planning (3)
Principles and practices of urban regional planning types of planning reports applications to North Carolina PREQ Permission of instructor

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

Industrial Location and Community Development (3)
Measures of manufacturing location theory decision making factors in the location of industry community development planning practices PREQ 350 or permission of instructor

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

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

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

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)

Earth and Man (3,4)
Physical processes of the earth their effects on man and his attempts to control and use the earth 3 Lecture 2 Discussion/demonstration (optional) (P2)

Introduction to Physical Geology (4)
Earth structure composition and evolution of landscape minerals and rocks active processes effects of wind water and ice for science majors 3 Lecture 2 Lab

Introduction to Historical Geology (4)
Major events and changes in life forms in North American geological history fossils ancient environments and geologic interpretation 3 Lecture 2 Lab
251 Rocks and Minerals (2)
Hand specimen examination and description of common rocks and minerals classification and identification systems for non majors PREQ 150 1 Lecture 2 Lab

252 Mineralogy (4)
Principles of crystallography crystal chemistry and phase relationships chemical computations descriptive and determinative mineralogy PREQ CHEM 135 or permission of instructor 2 Lecture 4 Lab

302 (GEOG 302) Geomorphology (4)

305 (GEOG 305) Soils and Hydrology (4)
Soil genesis properties and classification the hydrologic cycle surface runoff and groundwater water budgets and water quality management of soils and water PREQ Permission of instructor 3 Lecture 2 Lab

331 Introduction to Paleontology (4)
Distribution morphology evolutionary trends and classification of fossils PREQ 150 or GEOG 150 or permission of instructor 3 Lecture 2 Lab field trip

351 Optical Mineralogy and Petrography (3)
Principles and methods of optical crystallography identification of nonopaque minerals in immersion oils and thin section description of rock in thin sections PREQ 252 or permission of instructor 1 Lecture 4 Lab

352 Igneous and Metamorphic Petrology (4)
Rock petrogenesis classifications and associations phase equilibria and mineral assemblages under various temperature pressure conditions thin section analyses PREQ 351 and CHEM 136 3 Lecture 2 Lab field work

360 Oceanography (3)
Chemistry of the oceans wave action and erosion geology of ocean basins currents and climates marine resources and their management

361 Environmental Geology (3)
Changes in the geologic environment caused by man principles of geologic land use planning population statistics and resource consumption PREQ 150 or GEOG 150

371 Structural Geology (3)
Descriptive structural geology emphasis on outcrop and regional scale deformational features use of maps and graphic techniques in structural analysis PREQ 150 2 Lecture 2 Lab field trips

389 Cooperative Education in Geology (1 or 3,R15)
See page 123

420 Sedimentation (3)
The origin properties and classification of sediments and sedimentary rocks PREQ 150 PREQ or COREQ 252 or permission of instructor 2 Lecture 2 Lab

421 Stratigraphy (3)
Environments of sedimentary deposition and relationships in time and space PREQ 420 or permission of instructor COREQ 252 2 Lecture 2 Lab field trip

441 Economic Mineral Resources (3)
Formation of and exploration for economic mineral deposits technologic economic and political aspects of exploitation distribution of production and reserves PREQ 251 or permission of instructor

442 The Geology of Oil and Water (3)
Origin migration and accumulation of fluids in rocks mapping and evaluating deposits PREQ One geology course 2 Lecture 2 Lab
451 X Ray Diffraction and Analytical Methods (3)
Theory of diffraction production and interpretation of powder photographs and
diffractometer curves other chemical and rock preparation techniques PREQ  Permis-
sion of instructor  2 Lecture  2 Lab

471 Tectonics (3)
History and development of tectonic concepts geometry and kinematics of plate
mosaic evolution of modern and ancient orogenic belts  PREQ 352 371 or permis-
sion of instructor  2 Lecture  2 Lab  field trips

491 Topics in Geology (1-3,R6)
PREQ  Junior standing  permission of instructor

493 Special Problems in Geology (2,R4)
Supervised research  written and oral reports

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<th>Graduate Courses</th>
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<tr>
<td>541 Economic Mineral Resources (3)</td>
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<td>551 X Ray Diffraction and Analytical Methods (3)</td>
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<td>591 Topics in Geology (1 3 R6)</td>
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<td>593 Special Problems in Geology (2 R4)</td>
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<td>601 Earth Sciences (3 3)</td>
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<td>693 Topics in Geology (1 3 R6)</td>
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German (GER)

101 German Language and Culture (3)
Elements of understanding speaking reading and writing German grammatical
concepts  lab practice required (P3a)

110 Intensive German I (6)
Developing skills in understanding speaking reading and writing emphasis on oral
aspects  Rassias Method  Three hours credit only applicable to general education
 4 Lecture  3 Lab  5 Drill  PREQ  Permission of instructor (P3a)

132 Elementary German (3)
PREQ  Placement or permission of department head

204 A Literary Perspective of German Civilization (3)
Selected German literary masterpieces as a reflection of German civilization  PREQ
ENGL 102 (P5)

231 Intermediate German I, II (3,3)
232 Continuation of written and oral German grammar readings and discussions on German
culture and civilization readings in more specialized areas  lab practice may be as-
signed  PREQ 132 or equivalent or placement for 231 231 or equivalent or place-
ment for 232

240 Intensive German II (6)
Continuation of 110 increased emphasis on reading and writing  4 Lecture  5 Lab  5
Drill  PREQ  Permission of instructor

301 German Composition (3)
PREQ  232 or equivalent or placement

302 Conversational German (3)
Advanced intermediate course emphasizing topical dialogue  PREQ 232 or equivalent
or placement

303 Applied German Conversation (3,R6)
Apprenticeship in the intensive language program  PREQ 232 or 240 sophomore
standing selection by faculty  10 Lab

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K 12  PREQ  Admis-
sion to professional sequence or permission of instructor
321 German Civilization I, II (3,3)
Geographical political cultural and historical aspects of Germany course division at
the 19th century PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of
department head

331 Survey of German Literature I, II (3,3)
Major literary movements authors and works since the 12th century course division
at the 19th century PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of
department head

335 Introduction to German Prose and Poetry (3)
Introduction to German literary texts reading and analysis of literary works PREQ
232 or 240

351 German Phonetics and General Linguistics (3)
Analysis of the German sound system intensive drill in pronunciation articulation
intonation and rhythm introduction to linguistics PREQ 232 or 240 PREQ or
COREQ 301 and 302 or permission of department head

389 Cooperative Education in German (1 or 3,R15)
PREQ 301 302 See page 123

393 Special Topics in German (1 3, R6)
PREQ 232 or 240

431 Studies in German Literature (3,R6)
Intensive study of an author or authors genre literary movement school or literary
period PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

451 Advanced German Grammar (3)
Comprehensive study of the more difficult grammatical forms and usages PREQ 232
or 240 PREQ or COREQ 301 and 302 or permission of department head

452 Advanced German Conversation (3)
Discussion of selected topics oral reports on assigned reading situational dialogues
emphasizing practical everyday German PREQ 232 or 240 PREQ or COREQ 301
and 302 or permission of department head

481 Independent Studies in German (1 3,R6)
PREQ 232 or 240 PREQ or COREQ 301 and 302 or permission of department head

Health Education (HEAL)

120 Personal and Community Health (2)
Philosophy knowledge practices of health coping with problems of living (F5)

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

250 First Aid and Safety Education (2)
Prevention and care of accidents and injuries including American Red Cross training
courses

300 Health Education for Elementary Teachers (2)
Directing a progressive sequential school health program screening for problems
healthful school living health services and instruction development of a curriculum
project

305 Current Health Problems (3)
Incidence diagnosis treatment rehabilitation and prevention of leading community
health problems addictions individual family and community effects positive mental
health as a deterrent
311 (PE 311) Measurement and Evaluation (2)
Study and use of methods of testing measuring and evaluating health status statistical analysis of data

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

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

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

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

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

412 Seminar (2)
Current health teaching methods

492 Practicum in Community Health Education (3)
Directed observation and supervised experience in a public health project under direction of public health officials and faculty 35 hours per week COREQ 412 and EDSE 490

Health 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)
PREQ HSCC 389 See also page 123

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

402 Controlling Resources in Health Information Management (3)
Application of principles of productivity and controlling financial resources in the management of health information services PREQ 303
403 Health Data Collection (2)
Computing, reporting, and displaying health care statistics. Principles of applied research for the health information management profession. COREQ 404

404 Health Information Classification Systems I (4)
Basic ICD-9 CM coding for inpatients and outpatients. Coding for prospective payment. PREQ 301 310 COREQ 401 3 Lecture 3 Lab

405 Health Information Classification Systems II (3)
Basic CPT-4 coding for ambulatory patients. Advanced ICD-9 CM coding for prospective payment. PREQ 404 2 Lecture 3 Lab

406 Topics in Health Information Management (4)
Various current topics in HIM, projects in inservice education, data quality and records in non-acute care facilities. 3 Lecture 3 Lab

483 Clinical Practicum I (1)
Supervised practical application in an acute care facility of previously studied theory related to basic functions of the acute care facility's health information department. Emphasis on the development of skills related to the performance of technical procedures. PREQ 301 60 clinical practice hours

484 Clinical Practicum II (2)
Supervised practical application in an acute care facility of previously studied theory related to JCAHO medical staff quality and utilization management activities, computer applications, DRGs, ICD-9 CM coding, budgeting and health care statistics. COREQ 401 402 403 404 483 120 clinical practice hours

485 Clinical Practicum III (1)
Supervised practical application of previously studied theory related to health information functions in non-acute care facilities and other health care 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 405 406 485 486

Health Sciences (HSCC)

130 Introduction to Health Professions (3)
Survey of health specialties, the health sciences and the preparation values and perspectives of health professionals. Roles of members of the health care team.

220 Medical Terminology (3)
The meaning, construction and use of terms in the medical and health sciences. Standard medical abbreviations. COREQ for HIM majors. HSMR 321

240 Introduction to Emergency Medical Care (3)

241 Basic Emergency Medical Techniques (2)
Patient assessment, CPR, airway management, splinting and bandaging, childbirth, rescue and extrication. PREQ or COREQ 240 4 Lab/field
260 Etiology of Infectious Diseases (3)
Disease-causing bacteria, viruses, rickettsia, fungi, and animal parasites disease producing mechanisms and resistance to infection. 2 Lecture 2 Lab

330 Legal and Legislative Aspects of Health Care (1 3)
The legal aspects of health care and legislative forces affecting it impact on practitioners.

370 Introduction to Pharmacology (1 3)
Principles including the dynamics of drug activity, synthesis, and toxicity in drug therapy. PREQ: Permission of instructor.

389 Cooperative Education in Health Sciences (1 or 3, R15)
See page 123.

Graduate Course
610 Development, Supervision, and Evaluation of Clinical Education (3)

Health Services Management and Supervision (HSMS)

320 Human Resource Management in Health Care Agencies (3)
Selected knowledge and skills related to recruiting, interviewing, selecting, training, and evaluating human resources in health care agencies.

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

340 Perspectives in Health Care (3)
Problems related to factors affecting health care agencies' cost, availability, and distribution of services.

450 Financial Management in Health Care (3)
Selected knowledge and skills related to budgeting and the financial management of clinical departments and service units. PREQ: 320, 340, or permission of instructor.

460 Management of Health Resources (3)
Concepts of resource management in health care delivery, the supervision process and related skills as applied in various health-related facilities.

493 Problems in Health Care Management (3)
Seminar on current issues, major paper required. PREQ: HSMS or EMC major.

495 Seminar in Health Sciences (1)
Current literature and research on selected topics. PREQ: Health science major or permission of instructor.

Graduate Courses
550 Financial Management in Health Care (3)
650 Management of Health Resources (3)
610 Service Delivery Systems in Health Care (3)
620 Health Regulation and Practice Law (3)
630 Manpower Dynamics in Health Care (3)
640 Information Systems for Health Care (3)
650 Quality Assurance Issues and Outcomes (3)
680 Directed Independent Study in Health Science (1 3 R6)
693 Special Problems in Health Care (3)
694 Seminar in Health Care Management Issues (3)
699 Thesis in Health Science (3)

Higher Education (EDHE)

431 Foundations of Adult Education (3)
Historical, sociological, psychological, and philosophical foundations of adult education. The nature and characteristics of adult learners. Review of research.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>531</td>
<td>Foundations of Adult Education (3)</td>
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</tr>
<tr>
<td>605</td>
<td>The Two-Year College (3)</td>
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<tr>
<td>610</td>
<td>Two-Year College Instruction (3)</td>
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<tr>
<td>636</td>
<td>Two-Year College Curriculum Development (3)</td>
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<tr>
<td>683</td>
<td>Internship Two-Year College Administration I (2)</td>
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<tr>
<td>773</td>
<td>Internship Two-Year College Administration II (2)</td>
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<tr>
<td>783</td>
<td>Practicum in Two-Year College Teaching (2)</td>
<td></td>
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<tr>
<td>693</td>
<td>Topics in Higher Education (1 R3)</td>
<td></td>
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<tr>
<td>695</td>
<td>Seminar on the Two-Year College (2)</td>
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<tr>
<td>710</td>
<td>(EDAD 710) Administration of Two Year Colleges (2)</td>
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**History (HIST)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>105</td>
<td>(305) History of Modern Western Civilization (3)</td>
<td>Western civilization from the Renaissance through the 20th century against the back ground of classical civilizations and the medieval period (P5)</td>
</tr>
<tr>
<td>106</td>
<td>(306) Modern American Institutions (3)</td>
<td>A consideration of the major American social, economic, and political institutions in the 20th century (P1b)</td>
</tr>
<tr>
<td>107</td>
<td>(307) World Cultures in Historical Perspective (3)</td>
<td>Comparison of Western culture and non-Western cultures, historical developments and their impact on the modern world (P4)</td>
</tr>
<tr>
<td>221</td>
<td>European History to 1648 (3)</td>
<td>Social, cultural, economic, and political developments that shaped European civilization from earliest times through the Reformation</td>
</tr>
<tr>
<td>222</td>
<td>European History Since 1648 (3)</td>
<td>Social, cultural, economic, and political developments that shaped European civilization since the Reformation</td>
</tr>
<tr>
<td>231</td>
<td>American History to 1865 (3)</td>
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<tr>
<td>232</td>
<td>American History since 1865 (3)</td>
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</tr>
<tr>
<td>297</td>
<td>Sophomore Seminar (3)</td>
<td>Historical methods, historiography, and directed research</td>
</tr>
<tr>
<td>311</td>
<td>Ancient Greece and Rome (3)</td>
<td>Cultural, intellectual, and political developments in Greece and Rome, including the origins of Christianity</td>
</tr>
<tr>
<td>313</td>
<td>The Medieval World (3)</td>
<td>Europe from the founding of Constantinople to the late medieval period</td>
</tr>
<tr>
<td>317</td>
<td>History of Twentieth Century International Relations (3)</td>
<td>The Paris Peace Conference and aftermath 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</td>
</tr>
<tr>
<td>322</td>
<td>British History to 1603 (3)</td>
<td>Ancient and Roman Britain, Anglo-Saxon society, the Middle Ages, Reformation and Tudor government and society, emphasis on England but includes Celtic history</td>
</tr>
<tr>
<td>323</td>
<td>British History Since 1603 (3)</td>
<td>Constitutional struggles of the 17th century, the age of aristocracy, industrial transformation and 19th century growth and reform, rise of the welfare state</td>
</tr>
<tr>
<td>327</td>
<td>Modern Russia (3)</td>
<td>The pre-revolutionary background and the Soviet period</td>
</tr>
<tr>
<td>341</td>
<td>North Carolina History (3)</td>
<td>Developments contributing to the growth of the state, the emergence of North Carolina since 1900</td>
</tr>
</tbody>
</table>
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 empires influence of the Enlightenment

362 Latin American History II (3)
Revolutions independence struggle for political stability popular government on trial contests of hegemony rise of indigenous nationalism

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

389 Cooperative Education in History (1 or 3,R15)
See page 123

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

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

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

416 Europe in the Twentieth Century (3)
World War I the Paris Peace Conference domestic developments the rise of isms in Russia Italy and Germany World War II postwar reconstruction and reorganization the Cold War

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

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

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

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

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

436 The United States since 1920 (3)
Roaring Twenties depression New Deal World War II role as cold war superpower domestic developments

442 History of Black America (3)
Role of the Black in American history African background religious cultural economic and political institutions trends toward assimilation black nationalism
443 The American South (3)
Social structure and economic interests of the Antebellum South impact of Civil War and Reconstruction the New South the 20th century South emphasis on regional differences and social transition

445 Cherokee History (3)
Pre-contact Cherokee society acculturation removal post removal development of the Cherokee Nation West and the Eastern Band of the Cherokees

446 Southern Appalachian Culture (3)
History and folkways in the period of geographic isolation changes in regional culture in an age of improved transportation and communications

451 Women in American History (3)
Historic role of women attitudes in various periods women in American culture the women's rights and feminist movements

463 History of the Mexican Nation (3)
Mexico since 1810 19th century conflicts revolution 1910 1917 progress to the present

472 Local History and Genealogy (3)
Role of the family and community in shaping state regional and national developments emphasis on research techniques and local resources Lecture and fieldwork

473 Archives and Museum Management (3)
Preservation management, and display of archival materials and museum artifacts with emphasis on museum management Lecture and fieldwork

475 Historical Editing (3)
Analysis of manuscripts government documents and transcripts of oral testimony emphasis on evaluation selection transcription and annotation of materials and completion of an editorial project Lecture and fieldwork

478 Historic Sites and Historic Preservation (3)
Aspects of historic preservation emphasis on aesthetic legal financial and public relations considerations Lecture and fieldwork

483 Internship Project in History (3,3,3)
484 Work experience on historical problems written assignments required S/U grading
485 9 hours per week per course

493 Topics in History (3, R12)

498 Senior Seminar (3)
A comparative study of European and American ideas and institutions and the impact on the history of each culture PREQ Permission of department head

Graduate Courses

511 Western Imperialism 1800 to the Present (3)
512 Early Modern Europe (3)
513 Europe in the Eighteenth Century (3)
514 Europe in the Nineteenth Century (3)
516 Europe in the Twentieth 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 Historiography (3)
680 Readings in History I II III IV (3 R6 per course)
681
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Internship in History (1 3 R3)
Problems in American History (3 R9)
Seminar in American History and American Studies (3)
Thesis (3 R6)
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 and simulation of function and task roles PREQ Admission to teacher-education program or permission of department head

321 Family Finance (3)
Management of financial resources in relation to individual and family needs goals and values consumer problems

389 Cooperative Education in Home Economics (1 or 3,R15)
See page 123

410 Consumer Strategies (3)
The relationship of individuals to their natural and man made environments and the interplay that shapes the functioning of families as consumers PREQ 210

480 Independent Study in Home Economics (1 3,R6)
PREQ Permission of instructor

483 Internship (3,3,3)
484 Integration of theory and practice in a setting appropriate to the student's career field
485 S/U grading 9 hours per week per course

493 Topics in Home Economics (1-3,R6)

495 Professional Seminar (1)
The role of professionalism in gainful employment and career advancement S/U grading

Graduate Courses

514 (IEF 514) Career Exploration (3)
593 Topics in Home Economics (1 3,R6)
601 Professional Issues (3)
602 (IEF & OA 602) Vocational Education History and Philosophy (3)
610 (IEF 610) Vocational/Technical Evaluation (3)
611 Program Development in Home Economics (3)
620 Contemporary Consumer Issues (3)

652 Computer Applications in Design/Consumer Technology (3)
654 Creative Ergonomics (3)
680 Independent Study in Home Economics (1 3,R6)
681 Research Project (1 3 R6)
693 Topics in Home Economics (1 3,R6)
699 Thesis (3 R6)

Human Resource Development (HRD)

Graduate Courses

589 Cooperative Education in Human Resource Development (3)
610 Human Resource Development (3)
612 Instructional Design (3)
620 The Design and Use of Instructional Games/ Simulations (3)
660 Career Development/Management Systems (3)

670 Program Evaluation (3)
675 Managing the Human Resource Development Functions (3)
683 Field Experience in Human Resource Development (3)
693 Topics in Human Resource Development (3,R6)
698 Seminar in Human Resource Development (3)
Industrial Distribution (ID)

130 Interpreting Engineering Schematics and Diagrams (1)
Basics of reading blueprints of maps pictorial schematic architectural and engineering drawings techniques of fast hand sketching 2 Lab

230 Industrial Distribution (3)
The flow of industrial goods and services through the industrial distributor

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

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

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

Industrial and Engineering Technology (IET)

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

132 Introduction to Industrial and Vocational Education (3)
The philosophy and scope of industrial and vocational education survey of employment opportunities methods of instruction in related vocational programs

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

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

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

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

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

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

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

320 Power Technology (4)
Forms of energy and prime movers used by men to increase their value and utility activities with energy converters and power transmission and control components and
systems. Typically offered in fall semester of years with even numbers. Lab fee charged.

3 Lecture 2 Lab

330 Industrial Arts for the Elementary Teacher (2)
Industrial procedures, tools, materials, and projects suitable for the elementary school.
Lab fee charged. 1 Lecture 2 Lab

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.
2 Lecture 2 Lab

337 Management of Safety Systems (3)
Comprehensive, organized management approach for identifying, measuring, and reducing operational errors leading to accidents.

338 Fire Control and Compliance Management (3)
Emergency planning, compliance with standards, recognition of fire hazards, implementation of controls, and extinguishing agents and methods.

341 Alternate Energy Sources (3)
Overview of alternate energy sources, active and passive solar energy, wind energy, hydroelectricity, other topics.

342 Construction Processes (3-4)
Principles and processes for producing marketable buildings as these relate to the North Carolina Building Code.
3 Lecture 2 Lab (optional)

350 Technical Drawing and Illustration (3)
Orthographic and axonometric drawing, including multiview isometric, dimetric, trimetric, cavalier, and cabinet obliques. Dimensioning, sectioning, and assembling surfaces. Treatments. 2 Lecture 2 Lab

351 Architectural Drafting and Design I (3)
Designing and drafting a complete set of residential plans, concepts, and techniques of house construction, building codes. Lab fee charged. 2 Lecture 2 Lab

352 Furniture and Architectural Drafting and Design (3)
Furniture and architectural design, dimensioning, detailing, and illustration. PREQ 350 351. 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 350 351 or permission of instructor.

361 Machining Processes (4)
Metal removal and fabrication processes. Lab fee charged. PREQ 260 MATH 130 144 or 145. 3 Lecture 2 Lab

370 Electricity (4)
Direct and alternating current sources, circuits, circuit analysis, introduction to electronic functions. Lab fee charged. PREQ MATH 144 or 145, PHYS 130. 3 Lecture 2 Lab

371 Electronics (4)
Solid state and vacuum tube devices, power supply, amplifier, oscillator, and logic circuits. Lab fee charged. PREQ 370. 3 Lecture 2 Lab
389 Cooperative Education in Industrial Technology (1 or 3,R15)
See page 123

400 Recreational Crafts (3)
Activities for schools, camps, churches, retirement centers and other recreational programs. Lab fee charged. 2 Lecture 3 Lab

409 History and Philosophy of Vocational Education (3)

420 Polymer Technology (4)
Industrial fabrication techniques. Topics in polymer science and mold construction. Lab fee charged. 3 Lecture 2 Lab

422 Advanced Polymer Technology (3)
Theory and application of molding processes. Emphasis on thermoplastic and thermoset injection. Topics in polymer science and microprocessing

423 Fluid Systems (3)
Basic fluid mechanics, hydraulic and pneumatic systems used in industrial manufacturing processes. PREQ PHYS 130. 2 Lecture 2 Lab

430 Occupational Analysis and Course Construction (3)
Principles and techniques of selecting, analyzing, and arranging teaching activities

432 Shop/Laboratory Organization and Management (3)
Supplies, equipment, safety. Development of a planned facility for industrial/vocational education. Typically offered in fall semester of years with even numbers. PREQ Permission of department head

435 Technology and Civilization (3)
The interdependence of society and technology. Modern industrial processes. Use of energy and material resources. Pollution, population, explosion, food supplies

436 Cooperative Vocational Education (3)
Preparation for teachers seeking certification. Emphasis on needs of trade and industrial teachers. PREQ EDSE 320 or permission of instructor

437 Student Organizations in Vocational Education (3)
Techniques of planning and advising organizations

472 Robotics and Industrial Electronics (3)
Electronic sensing, logic, and control functions applied to electromechanical systems. Review of basic robot designs and applications. Lab fee charged. PREQ 371. 2 Lecture 2 Lab

480 Problems in Industrial and Engineering Technology (1,3,R6)
Independent study in industrial, technical, or vocational education. Project required. PREQ Permission of advisor and instructor

493 Special Topics (1,3,R6)
PREQ Permission of instructor

Graduate Courses
513 Advanced Graphic Arts (3)
514 (HE 514) Career Exploration (3)
522 Advanced Polymer Technology (3)
532 Shop/Laboratory Organization and Management (3)
540 Wood Technology (3)
560 Industrial Materials and Processes (3)
570 Advanced Electronics (3)
589 Cooperative Education in Industrial Technology (3,R6)
593 Topics in Industrial and Engineering Technology (1,3,R6)
602 (OA & HE 602) Vocational Education History and Philosophy (3)
610 (HE 610) Vocational/Technical Evaluation (3)

630 Trends in Industrial Education (3)
632 Administration of Industrial Education (3)
636 Cooperative Vocational Education (3)
640 Value Analysis (3)
641 Quality Assurance (3)
650 Program Planning in Vocational/Technical Education (3)
670 Research Methods in Vocational/Technical Education (3)
680 Independent Study (3,R6)
688 Internship in History (1,2,R,3)
695 Seminar in Industrial and Engineering Technology (1,3,R3)
699 Thesis (3,R6)
Interior Design (IDSN)

153 Introduction to Interior Design (2)
Elements and principles of design, creative problem solving. 1 Lecture, 2 Lab

253 Space Planning and Color (4)
Interior space planning and color application in three dimensional spaces. PREQ 153 or permission of instructor. 2 Lecture, 4 Lab

254 Perspective Drawing (4)
Two-point perspective drawing, shadow casting and rendering of interior spaces. PREQ 253 IET 350, COREQ IET 351. 2 Lecture, 4 Lab

351 Lighting Design for Interiors (3)
Survey of natural and artificial lighting sources, methods of selection and specification, physiological and psychological responses to various lighting applications. PREQ IET 351. 2 Lecture, 2 Lab

353 Residential Design (4)
Design of residential spaces using skills and information learned in IDSN 253. Application of materials, lighting, and presentation techniques. PREQ 254 COREQ IET 351, 356. 2 Lecture, 4 Lab

355 History of Interiors and Furnishings I (3)
Survey of interiors and furniture from ancient times to the 19th century. PREQ ART 136 or ART 137

356 Methods and Materials for Interior Design (3)
Composition, manufacture, source, application and specification information for interior materials. PREQ IET 351

357 Contract Design I (4)
Design of office spaces incorporating conventional and systems furniture. PREQ 353. 2 Lecture, 4 Lab

358 History of Interiors and Furnishings II (3)
Survey of interiors and furniture from the beginning of the 19th century to the present. PREQ 355

389 Cooperative Education in Interior Design (1 or 3, R15)
See page 123

456 Contract Design II (4)
Creation of designs for commercial applications. PREQ 357. 2 Lecture, 4 Lab

458 Professional Practice in Interior Design (3)
Methods of organizing and marketing design services, use of business forms and contracts. PREQ 456

459 Portfolio Review (1)
A comprehensive evaluation of completed interior design projects and their organization in students' portfolios. PREQ 456 or permission of instructor

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.

485 S/U grading. PREQ 357, 358 or permission of instructor. 9 hours per week per course

493 Topics in Interior Design (3, R9)
Examination of current topics and trends in interior design. PREQ Permission of instructor
Journalism (JOUR)

140 (RTV 140) Introduction to Mass Communications (3)

301 (RTV) Writing for Mass Communications (3)
Elements of news news values basic interviewing techniques writing principles and fundamentals styles used in journalism broadcasting advertising and public relations
PREQ ENGL 102 JOUR/RTV 140 basic typing skills

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

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

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

389 Cooperative Education in Journalism (1 or 3,R15)
See page 123

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

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

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

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

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

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

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

Management (MGT)

300 Introduction to Management (3)
Principles issues and practices of modern management the production process in creating goods and services behavioral concepts pertinent to managerial functions

301 International Management (3)
Issues in the management of international enterprises adaptation of managerial functions and skills to the international business environment

302 Labor Management Relations (3)
Critical roles of labor unions legislative bodies and governmental regulation alternative strategies in impasse resolution
PREQ 300
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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>304</td>
<td>Personnel Management (3)</td>
<td>Recruiting training evaluating and rewarding human resources developing and implementing effective personnel programs  PREQ 300</td>
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<tr>
<td>305</td>
<td>Quantitative Business Analysis (3)</td>
<td>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</td>
<td></td>
</tr>
<tr>
<td>306</td>
<td>Behavioral Science in Organizations (3)</td>
<td>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</td>
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</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Management (1 or 3, R15)</td>
<td>See page 123</td>
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<tr>
<td>400</td>
<td>Organization Theory (3)</td>
<td>Structure and process at the organizational level size complexity formalization goals centralization and decentralization and environment  PREQ 306</td>
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<tr>
<td>401</td>
<td>Small Business Management (3)</td>
<td>Operations and strategies of small firms integration of functional areas economic social political technological and governmental factors  PREQ Permission of instructor</td>
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<tr>
<td>402</td>
<td>Production and Operations Management (3)</td>
<td>Management processes for the creation of products and services analytical techniques and controls  PREQ 305</td>
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<tr>
<td>405</td>
<td>Compensation Management (3)</td>
<td>Theory from economics and the behavioral sciences public policy regarding pay surveys job evaluation performance appraisal and incentive plans  PREQ 304</td>
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<tr>
<td>407</td>
<td>Interpersonal Behavior (3)</td>
<td>Awareness and competence in managerial interpersonal relationships listening behavior for examination of self concept  PREQ 300</td>
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<tr>
<td>480</td>
<td>Independent Research (3)</td>
<td>PREQ Permission of department head</td>
<td></td>
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<tr>
<td>483</td>
<td>Internship in Management (3, 3, 3)</td>
<td>Supervised work or research in applications of previously studied theory  S/U grading</td>
<td></td>
</tr>
<tr>
<td>484</td>
<td>Internship in Management (3, 3, 3)</td>
<td>PREQ Junior standing 2.0 GPA written application permission of department head Minimum of 10 hours per week</td>
<td></td>
</tr>
<tr>
<td>493</td>
<td>Topics in Management (1, 3, R6)</td>
<td>PREQ Permission of department head</td>
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<tr>
<td>495</td>
<td>Seminar in Management (3)</td>
<td>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</td>
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**Graduate Courses**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>605</td>
<td>Organizational Behavior and Analysis (3)</td>
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<tr>
<td>606</td>
<td>Quantitative Analysis for Business I (3)</td>
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<td>607</td>
<td>Strategic Management (3)</td>
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<td>608</td>
<td>Personnel Administration (3)</td>
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<td>609</td>
<td>The Collective Bargaining Process (3)</td>
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<td>611</td>
<td>Production and Operations Management (3)</td>
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<td>613</td>
<td>Management of International Operations (3)</td>
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<td>614</td>
<td>Managerial Career Development (3)</td>
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<tr>
<td>670</td>
<td>Project Management Systems (3)</td>
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<td>672</td>
<td>Human Resource Management in Projects (3)</td>
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<td>674</td>
<td>Project Contract Management (3)</td>
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<td>676</td>
<td>Specialized Project Management Techniques I (3)</td>
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<td>677</td>
<td>Specialized Project Management Techniques II (3)</td>
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<td>Project Management Organization and Policy (3)</td>
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<td>682</td>
<td>Research Project in Management (3, R6)</td>
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<td>693</td>
<td>Topics in Management (3, R6)</td>
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</table>
Manufacturing Engineering Technology (MET)

160 Industrial Computer Applications (3)
Introduction to industrial computer systems elementary programming interactive and batch processing software analysis for industrial applications

320 Plant Layout and Material Handling (3)
Problem analyses and design of plant facilities plant layout, material flow and handling physical storage systems PREQ IET 150 361

351 Statics and Dynamics (3)
Study of forces acting on rigid bodies at rest and in motion PREQ PHYS 130 MATH 146 COREQ MATH 153

352 Strength of Materials (3)
The relationship between externally applied forces and internally induced stresses in structural members PREQ 351 or equivalent, MATH 153 2 Lecture 2 Lab

363 Methods and Standards (3)
Process analysis principles of motion economy elemental time data and production rating schedules PREQ MGT 300 MATH 170

366 Manufacturing Materials and Processes (3)
Study of the nature composition and structure of various materials used in manufacturing Materials include ferrous and non ferrous metals polymer ceramics wood and fibers

393 Topics in Engineering Technology (1 3, R9)

410 Computer Drafting (3)
Computer aided drafting and design (CADD) principles practices trends hardware software survey of computer aided manufacturing and engineering PREQ 130 or equivalent and computer literacy

440 Fluid Power (3)
Development, transmission and use of power through fluid power circuits and controls PREQ PHYS 130 or 230 2 Lecture 2 Lab

460 Materials Management (3)
Systematic methods of understanding and controlling all the materials used by a manufacturing organization from purchase to final delivery PREQ 160 and MATH 170

462 Quality Control (3)
Modern concepts of the quality assurance function of industry to maximize customer satisfaction at optimum product cost PREQ 160 MATH 170

463 Manufacturing Planning and Cost Estimating (3)
Correlation of design and manufacturing requirements planning manufacturing operations for parts and assemblies time/cost estimates PREQ 363 130 or IET 150 IET 361

465 Engineering Economy (3)
The economics of decision making including break-even least cost and alternatives related to the time value of money PREQ ECON 231

478 Senior Design Project Proposal (1)
Research methodology literature review and industrial project writing styles culminating in a written report proposal for a senior project S/U grading PREQ Senior standing and permission of instructor
479 Senior Design Project (3)
Organizing, planning, and implementing a project using acceptable industrial techniques culminating in a formal written report and oral presentation. PREQ or COREQ. 478 - 1 Lecture 4 Lab

493 Special Topics (1-3, R6)
PREQ Permission of instructor

Marketing (MKT)

301 Principles of Marketing (3)
Introduction to marketing principles and problems

302 Marketing Communications (3)
Role of communication in marketing, mass communications, media costs, audience analysis. PREQ 301

303 Marketing Research (3)
The role of research in marketing decisions emphasis on data gathering, compilation analysis and interpretation. PREQ 301 ECON 235

304 Consumer Behavior (3)
Interdisciplinary study of buyer motivation and behavior contributions of the behavioral sciences to consumer purchasing decision processes. PREQ 301

305 Marketing Information Systems (3)
Systemic study of information flows and marketing intelligence. PREQ 301 CIS 251

306 Professional Selling (3)
Sales persuasion skills, theories and principles simulated selling situations. PREQ 301

389 Cooperative Education in Marketing (1 or 3, R15)
See page 123

401 Marketing and Social Issues (3)
Contemporary issues including social responsibilities and specific marketing practices. PREQ 301

403 Advertising Management (3)
Planning and production of a professional advertising campaign. PREQ 302

404 Retailing Management (3)
Retailing organization and management including store location, merchandise management, expense analysis and control and current issues and trends

405 Marketing Management (3)
Marketing decision making studied from the manager's viewpoint emphasis on market analysis, planning and strategy development. PREQ 301

406 Channels of Distribution (3)
Theory and concepts in channel management emphasis on structural, operational and leadership decisions. PREQ 301

407 International Marketing (3)
Problems, opportunities and strategies in an international marketing environment trade concepts and theories cultural, political, legal and financial constraints. PREQ 301

408 Problems in Marketing Management (3)
Analysis of cases relevant to the problems encountered by the marketing manager. PREQ 405
409 Industrial Marketing (3)
Market product design pricing strategy logistics promotion government and institutional markets in the context of the political economic technological and ethical environments  PREQ 301

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 including arithmetic simplifying algebraic expressions solving linear and quadratic equations exponents and radicals Not open to students with credit for courses numbered 130 and above Credit earned in this course will not count toward 128 hours required for graduation

101 Mathematical Concepts (3)
Great ideas in mathematics numbers and number patterns logic and reasoning induction deduction topics from algebraic and geometric structures probability statistics calculus and graph theory (F2)

130 College Algebra (3)
Real number properties solving equations inequalities systems of equations functions and graphs  PREQ 100 or placement

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

170 Applied Statistics (3)
Data analysis descriptive analysis exploratory data analysis binomial and normal distributions point and interval estimates hypothesis tests correlation regression goodness of fit analysis of variance and non parametric methods  PREQ 100 or placement
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 indefinite integrals improper integrals infinite series
PREQ 153

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

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

262 Introduction to Linear Algebra (3)
Systems of equations matrices vector spaces and linear transformations Not open to students with credit in 254 PREQ 250 and 153

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

286 Laboratory Practicum I, II (1,1)
287 Materials for teaching elementary mathematical concepts students design and conduct laboratory experiences PREQ 231 middle grades education major with math concentration or permission of instructor 286 for 287 3 hours

300 Problem Solving (2)
Methods and techniques for problem solving in mathematics 1 Lecture 2 Lab

310 (CS 310) Discrete Structures (3)
Enumeration topics including arrangements selections generating functions and recurrence relations basic concepts of graphs and trees
PREQ Junior standing or permission of instructor

315 Methods and Materials for Teaching Mathematics in the Secondary School (3)
A survey of contemporary trends and issues in teaching mathematics at the secondary level Methods materials curriculum and other current practices are included PREQ Admission to the professional-education sequence

320 Ordinary Differential Equations (3)
Differential equations of first order first degree with applications linear equations of higher order and numerical methods special equations of second order PREQ 256
331 Complex Variable Theory (3)
The complex number system limits continuity derivatives transcendental and multiple valued functions integration PREQ 256

350 Operations Research (3)
Convexity linear programming simplex algorithm duality transportation problems and integer programming PREQ 254 or 262 255

361 Introduction to Abstract Algebra (3)
Groups rings and fields PREQ 250

370 Statistical Theory I (3)
Elementary probability discrete and continuous random variables expectation moments sampling distributions probability distributions PREQ 256

375 Statistical Methods II (3)
Analysis of variance regression and correlation analysis of categorical data distribution free procedures PREQ 270

386 Practicum (2)
Practical experience under faculty supervision for prospective teachers as teaching aides and as tutors PREQ MATH 255 permission of department head 5 Lab

389 Cooperative Education in Mathematics (1 or 3, R15)
See page 123

393 Topics in Mathematics (1 6,R6)
PREQ Permission of department head

411 Foundations in Geometry (3)
Axiomatic approach to the study and development of Euclidean and non Euclidean geometry PREQ Junior standing or permission of department head

412 Modern Geometries (3)
Finite geometries transformations motions of the Euclidean plane and 3 space similarity transformations convexity and other topics PREQ Junior standing or permission of department head

422 Advanced Calculus I (3)
Sequences of real numbers continuous functions and differentiation PREQ 250 and 256

423 Advanced Calculus II (3)
Differentiation including L Hospital s rule and Taylor s theorem integration theory other classical topics PREQ 323

441 (CS 441) Introduction to Numerical Analysis (3)
Finite differences interpolation numerical integration and solutions to ordinary differential equations linear systems eigenvalues eigenvectors errors PREQ 254 or 262 255 CS 150

461 Abstract Algebra (3)
Topics from abstract algebra including quotient groups and rings rings of polynomials and field extensions quaternion homomorphism theorems PREQ 361

462 Linear Algebra (3)
Topics from linear algebra including algebra of linear transformations dual space algebra of polynomials determinants eigenvalues diagonalization and selected applications PREQ 262

470 Statistical Theory II (3)
Point and interval estimation hypothesis testing decision theory likelihood ratio and sequential testing correlation and regression PREQ 370
479 Capstone Seminar (2)
A course requiring written papers and oral presentations by students on historical and contemporary ideas from the current mathematical literature  PREQ  Senior standing

Graduate Courses

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

Medical Technology (see Clinical Laboratory Science)

Military Science (MS)

130 Fundamentals of Military Leadership I (1)
Role of the Army in national defense Army customs and courtesies weapons training marksmanship mountaineering drill and ceremonies leadership fundamentals and styles  1 Lecture 1 Lab

131 Fundamentals of Military Leadership II (1)
World change and military implications basic first aid leadership application and reaction training drill and ceremonies recent Army developments  1 Lecture 1 Lab

240 Development of Military Leadership I (1)
Principles of war leadership troop leading procedures training philosophy customs and traditions of the Army first aid weapons training drill and ceremonies  1 Lecture 1 Lab

241 Development of Military Leadership II (1)
Basic military skills map reading and land navigation first aid terrain analysis leadership assessment training weapons training drill and ceremonies  1 Lecture 1 Lab

331 Advanced Small Unit Operation (3)
Planning and executing tactical mission land navigation weapons and specialized systems written and oral communication physical training leadership reaction training adventure training advanced drill and ceremonies  PREQ 130 131 240 and 241 or permission of instructor  3 Lecture 1 Lab

332 Advanced Military Leadership (3)
Analysis of leader behavior and style management planning and organization physical training branch orientation adventure training advanced drill and ceremonies  PREQ 130 131 240 and 241 or permission of instructor  3 Lecture 1 Lab

383 Advanced Camp Internship (4)
Training in and practical application of military leadership land navigation military skills proficiency tactical operations and weapons systems Full time six weeks  PREQ 331 or permission of instructor
430 Military Leadership and Unit Operations (3)
Unit management and leadership military justice customs courtesies ethics staff study developing and executing labs control of cadet battalion PREQ 331 3 Lecture 1 Lab

431 Theory and Dynamics of the Military (3)
Professional development combined arms team NATO structure Warsaw Pact threat training personnel and logistics management control of cadet battalion developing and executing labs PREQ 430 3 Lecture 1 Lab

**MUSIC (MUS)**

101 (300) Music Appreciation (3)
Study of the development of musical styles (P3b)

102 Music in American Culture (3)
American history as reflected in folk popular and art music from 1607 to the present (P5)

110 Introduction to Instrumental Ensembles (1)
Introduction to playing in instrumental ensembles using fundamentals required to function in a group setting 4 Lab (F5)

111 Introduction to Vocal Ensemble (1)
Rehearsal and performance of a variety of choral works audition required 3 Lab (F5)

112 Introduction to Piano (1)
Group lessons in piano and the fundamentals of music for students who do not read music 2 Lab (F5)

113 Introduction to Singing (1)
Group lessons in voice and the fundamentals of music for students who do not read music 2 Lab (F5)

114 Introduction to Recorder (1)
Introduction to playing the recorder 2 Lab (F5)

116 Introduction to Dulcimer (1)
Introduction to the Appalachian plucked dulcimer 2 Lab (F5)

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

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

152 Aural Skills Laboratory I, II (1,1)
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
PREF 152 and 177 or permission of instructor

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

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

277 Theory and Literature I, II (3,3)
278 Application of theoretical and analytical skills to literature
PREF 178 for 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
PREF 301 3 meetings

305 Junior Recital (1)
Public performance May be scheduled after hearing committee approval and completion of junior qualifying examination
PREF 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
PREF 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)
351 Western music from Middle Ages through the Baroque in 350 from the Classical Period through the 20th century in 351
PREF 278 or permission of department head and instructor

378 Survey of the Music Industry (3)
The retail and wholesale music trade publishing royalties copyright performance rights record production advertising and promotion labor relations contracts artist management

389 Cooperative Education in Music (1 or 3,R15)
See page 123

403 Marching Band Techniques (2)
PREF 326

405 Senior Recital (1)
Public performance May be scheduled after hearing committee approval
PREF 305

421 Wind Literature (3)
Literature of wind instruments emphasis on authentic performance practices
PREF 278

422 Vocal Literature (3)
Solo vocal literature since the 16th century
PREF 278

423 Choral Literature (3)
Literature from the Renaissance to the present emphasis on style and authentic performance practices
PREF 278
424 Keyboard Literature (3)
Keyboard literature from the Baroque to the present  PREQ 278

425 Studies in Contemporary Music (3)
Styles and issues of 20th-century music  PREQ 351

428 Choral Conducting (3)
Study and application of gesture communication and analysis selected to choral conducting  PREQ 252 278

429 Instrumental Conducting (3)
Application of techniques and analysis to instrumental conducting  PREQ 252 278

470 Orchestration and Arranging (2)
Scoring and arranging for instrumental and vocal ensembles  PREQ 278

471 Arranging for High School Band and Chorus (3)
Scoring, transcribing and editing techniques for instrumental and choral ensembles  PREQ 470

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

477 Contrapuntal Techniques (3)
Survey of contrapuntal practice from 1500 to the present, focusing on the 16th 18th and 20th century techniques  PREQ 278

478 Compositional Techniques (3)
Composing in styles from the tonal period to the present  PREQ 477

489 Internship (3, 6, 9, R9)
Application of academic training in an approved agency under faculty supervision Minimum of 9 hours per week for each three credits or 135 hours arranged with the agency and the Department of Music  PREQ 378 BA 133 CIS 251 permission of the department head

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

Graduate Courses
501 Music in the Elementary School (2) 625 Studies in Music Literature (3 R6)
503 Marching Band Techniques (2) 630 Music Theory Seminar (3)
505 Workshop in Music Education (2) 631 Form and Analysis (3)
521 Wind Literature (3) 632 Twentieth Century Analysis (3)
522 Vocal Literature (3) 640 Studies in Pedagogy (3 R9)
523 Choral Literature (3) 660 Music in Worship (3)
524 Keyboard Literature (3) 678 Applied Composition (2 R8)
525 Studies in Contemporary Music (3) 679 Lecture/Recital (3 R6)
528 Choral Conducting (3) 680 Independent Study (1 R6)
529 Instrumental Conducting (3) 681 Readings in Music History (3 R9)
571 Arranging for High School Band and Chorus (3) 682 Research Project in Music Education (3)
572 Jazz Arranging (3) 693 Orff Schulwerk Level II (3)
577 Contrapuntal Techniques (3) 694 Orff Schulwerk Level III (3)
578 Compositional Techniques (3) 695 Music Education Seminar (3)
592 Orff Schulwerk Level I (3) 696 Seminar in Choral Techniques and Materials (2)
593 Topics in Music (1 3 R12) 697 Seminar in Instrumental Techniques and Materials (3)
595 Seminar in Arts Management (3) 698 Seminar for the General Music Class (3)
596 Seminar in the Music Industry (3) 699 Thesis (3 R6)
620 Music History Seminar (3)

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

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132 133 232 233 332 333 432 433 (2 each)
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</tbody>
</table>

148 Piano Class I, II (1,1)
149 Basic functional keyboard skills 2 meetings

158 Voice Class I, II (1,1)
159 Fundamental voice instruction 2 meetings

168 String Class I (1)
Playing stringed instruments basic technical problems and teaching techniques 2 meetings

169 Classroom Guitar Technique (1)
Basic technical problems and teaching techniques 2 meetings

170 Preparatory Applied Music (2,R4)
Individual instruction for students not meeting prerequisites Not applicable to major PREQ Permission of department head 1 meeting

171 Chorus (1,R8)
Study and performance of representative choral works open to any student meeting eligibility requirements 3 meetings

172 Concert Choir (1,R8)
Audition required public performances 4 meetings

173 Band (1,R8)
Performance of a wide variety of music in the marching symphonic and concert bands open to any student meeting eligibility requirements 4 meetings

174 Orchestra (1,R8)
Experience for advanced strings wind and percussion players formal concerts and performances PREQ Permission of instructor

175 Ensemble (1,R12)
Performance in vocal or instrumental ensembles 2 meetings

184 Functional Jazz Keyboard(1,R2)
Functional keyboard skills in jazz and popular styles PREQ 152 and 177 or permission of instructor 2 meetings
248 Piano Class III, IV (1,1)
249 Continuation of 148 and 149  2 meetings

258 Voice Class III (1)
    Continuation of 158 and 159  emphasis on diction and pedagogy  2 meetings

270 Brass Class I (1)
    Brass performance and pedagogy related to trumpet  2 meetings

271 Woodwind Class I (1)
    Playing clarinet and saxophone  basic technical problems and teaching techniques  2 meetings

272 Percussion Class (1)
    Playing percussion instruments  basic technical problems and teaching techniques  2 meetings

273 Brass Class II (1)
    Playing horn and low brass  basic technical problems and teaching techniques  PREQ 270  2 meetings

274 Woodwind Class II (1)
    Playing flute and double reeds  basic technical problems and teaching techniques  2 meetings

283 MIDI/Synthesis Class (1)
    Topics, equipment and pedagogy of MIDI/Synthesis  PREQ 152 and 177 or permission of instructor

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)  613 Applied Music (3 R9)
611 Applied Music (1 R4)  675 Ensemble (1 R6)
612 Applied Music (2 R8 3 R9)

Natural Resources Management (NRM)

340 Natural Resource Measurements (4)
Basic land climatic hydrologic and vegetative measurements used in resource management  3 Lecture  2 Lab

342 Microcomputer Applications in NRM (1)
Applications of spreadsheets database management, and specialized computer software to problems in natural resources management  1 Lab

344 Introduction to Geographic Information Systems (3)
Introduction to and applications of Geographic Information Systems in Natural Resources Management  2 Lecture  2 Lab

350 Foundations of Silviculture (4)
Principles of silviculture and their applications to the major forest types of the United States Site and management requirements of important tree species PREQ 340 BIOL 254 or permission of instructor  3 Lecture  2 Lab

352 Forest Resource Measurements (3)
Principles of applications in measuring forest resources Measurements of trees and stands for volume quality growth land areas and other forest resources PREQ 340 BIOL 254 or permission of instructor  2 Lecture  2 Lab

389 Cooperative Education in NRM (1 or 3, R15)
See page 123

440 Integrated Resources Management (4)
Natural Resources Management exercises project and strategic planning map and quantitative integration techniques group dynamics PREQ 340 CS 101 or permission of instructor  2 Lecture  4 Lab

442 Natural Resources Policy and Administration (3)
Policy and administrative principles case studies on the evolution of policy in the United States current issues

450 Forest Management (4)
Principles of forest management at stand and forest levels forest growth regulation harvesting and multiple use management PREQ 340 BIOL 254 or permission of instructor  3 Lecture  2 Lab

460 Watershed Management (3)
Principles of watershed management for analysis and control of water yield timing and quality in single and multiple use situations  2 Lecture  2 Lab

470 Land Suitability Classification (3)
Study and application of land suitability classifications systems PREQ 340 GEOG 305 or permission of instructor  2 Lecture  2 Lab

480 Independent Study (1-3,R6)
PREQ NRM major and permission of program coordinator

493 Topics in NRM (1, 3, R6)
PREQ Permission of program coordinator
Nursing (NSG)

300 Nursing Ethics through the Life Span (1-3)
Moral problems of everyday nursing practice, emphasis on the nurse's role in moral reasoning. PREQ: Permission of instructor.

301 Transition to Professional Nursing (3)
The development of the professional and of professional nurse roles and the processes through which they are conducted. PREQ: Admission to the nursing sequence.

302 Health Promotion in the Community (3)
Families as recipients of nursing care, wellness and promotion of health for individuals, families, and other groups in the community. PREQ: 301 or permission of instructor.

340 Basic Nursing Skills (3)
Psychomotor nursing skills essential to the care and comfort of patients. Scientific principles underlying nursing procedures. PREQ: Admission to the nursing sequence. 2 Lecture, 1 Lab.

350 Dimensions of Professional Nursing (2)
The development of the profession and of professional nurse roles. PREQ: Permission of instructor. 1 Lecture, 1 Seminar.

353 Nursing Science I (4)
Fundamental nursing processes and concepts, emphasis on health maintenance and wellness. The normal prenatal patient as a major model. PREQ: Admission to the nursing sequence. COREQ: 383.

355 Nursing Science II (4)

360 Health Care of Women (2)
Review of women's health care, the functions of women's bodies, and personal responsibility for health.

376 Health Promotion through the Life Span (2)
Emphasis on developmental tasks and common health needs. To be taught off campus only. PREQ: Admission to the nursing sequence.

383 Clinical Practicum I (3)
Application of psychomotor skills, interpersonal and nursing processes to the care of individuals. Emphasis on the nursing role in health maintenance. PREQ: Junior standing. COREQ: 353. 9 Lab.

384 Practicum in Community Health Nursing (3)
Application of wellness concepts and health promotion in the nursing care of families and other groups in community settings. PREQ: 302 and 399 or permission of instructor. 9 Lab.

385 Clinical Practicum II (4)
Care of ill individuals and families in acute care and home settings. Nursing role in illness emphasized. PREQ: 383. COREQ: 355. 12 Lab.

386 Health Assessment and Promotion (3)
Application of concepts and processes to the care of well individuals. Emphasis on the nursing role in health maintenance and promotion. PREQ: Permission of instructor.

389 Cooperative Education in Nursing (1 or 3, R15)
PREQ: 355. See page 123.
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)  
The influence of pathophysiology and psychopathology and appropriate nursing strategies for different and more complex client models planning nursing care in hypothetical situations for the childbearing family the hospitalized child and family and the mentally ill client  
PREQ 385 COREQ 486

467 Nursing Science IV (5)  
Planning nursing care in hypothetical situations for the ill adult with complex health care problems analysis of a selected community PREQ 385 COREQ 487

470 Nursing Research (3)  
Research design in the study of nursing problems interpretation of research emphasized PREQ Permission of instructor

475 Perspectives of the Nursing Profession (2)  
The impact and implications of current and evolving trends on the future practice of nursing PREQ Permission of instructor 1 Lecture 1 Seminar

480 Independent Study (1 2,R6)  
PREQ Permission of instructor

481 Overview of Nursing (3)  
A review of concepts principles and nursing actions pertaining to clients across the life span with a variety of health-care 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 health-care agencies experience in the managerial role of the nurse  
PREQ 385 COREQ 467 12 Lab

Nutrition and Dietetics (ND)

132 Nutrition for Everyday Living (3)  
Using nutritional information to make sound decisions about food intake
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
<th>Type(s)</th>
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<tbody>
<tr>
<td>231</td>
<td>Food Science (4)</td>
<td>Scientific principles of food preparation, effect of preparation practices on food quality and nutrient retention, storage and preservation principles</td>
<td>3 Lecture 3 Lab</td>
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<tr>
<td>300</td>
<td>Food Facts and Fads (3)</td>
<td>Effects of food processing and preservation, safety of the food supply, food choices and health</td>
<td>3</td>
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<tr>
<td>330</td>
<td>Human Nutritional Needs (3)</td>
<td>Principles of nutrition, needs throughout the life cycle, selection of well-balanced diets for health and well-being</td>
<td>3</td>
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<tr>
<td>334</td>
<td>Nutritional Applications (3)</td>
<td>Application of nutritional principles to diet planning, nutrient analysis including computer-aided analysis and nutritional assessment</td>
<td>1 Lecture 4 Lab</td>
<td></td>
</tr>
<tr>
<td>336</td>
<td>Normal Nutrition (2)</td>
<td>Principles of human nutrition, emphasizing nutrients and factors affecting utilization in the human body</td>
<td>2 BIOL 292 CHEM 133</td>
<td></td>
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<tr>
<td>337</td>
<td>Therapeutic Nutrition (2)</td>
<td>Physiological and biochemical abnormalities in disease, principles of nutritional therapy</td>
<td>2 BIOL 292 CHEM 133</td>
<td></td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Nutrition (1 or 3, R15)</td>
<td>See page 123</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>431</td>
<td>Food Preservation (3)</td>
<td>Principles and procedures for food preservation, home methods, principles of home food sanitation and spoilage, food storage techniques</td>
<td>2 Lecture 2 Lab</td>
<td></td>
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<tr>
<td>433</td>
<td>Methods in Human Nutrition and Foods (3)</td>
<td>Standard procedures for nutrient analysis, including proximate analysis of foods, determination of individual health and nutrient status, introductory experimental design and methodology</td>
<td>1 Lecture 6 Lab</td>
<td></td>
</tr>
<tr>
<td>434</td>
<td>Experimental Methods of Foods (4)</td>
<td>Techniques of sensory, physical, and objective evaluation in scientific foods and food products experimentation</td>
<td>2 Lecture 4 Lab</td>
<td></td>
</tr>
<tr>
<td>436</td>
<td>Advanced Human Nutrition (4)</td>
<td>Normal nutrition related to biochemical and physiological functioning, interrelationship of nutrients and their effect on body needs</td>
<td>2 BIOL 292 CHEM 133</td>
<td></td>
</tr>
<tr>
<td>437</td>
<td>Diet Therapy (3)</td>
<td>Mechanisms by which food contributes to maintenance of health, prevention of disease, and correction of nutritional disorders</td>
<td>436 or CHEM 133 BIOL 292</td>
<td></td>
</tr>
<tr>
<td>439</td>
<td>Introduction to Professional Practice (3)</td>
<td>Introduction to professional ethics, conduct in patient care, utilization of laboratory values, nutritional assessment, and dietary management</td>
<td>COREQ 437 2 Lecture 3 Clinical</td>
<td></td>
</tr>
<tr>
<td>480</td>
<td>Independent Study in Nutrition (1, 3, R6)</td>
<td>Permission of instructor</td>
<td>2 Lecture 4 Lab</td>
<td></td>
</tr>
<tr>
<td>483</td>
<td>Internship (3, 3, 3)</td>
<td>Integration of theory and practice in a setting appropriate to the student's career field</td>
<td>9 hours per week per course</td>
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<tr>
<td>484</td>
<td>Integration of theory and practice</td>
<td>Permission of instructor</td>
<td>9 hours per week per course</td>
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<tr>
<td>485</td>
<td>S/U grading</td>
<td>Permission of instructor</td>
<td>9 hours per week per course</td>
<td></td>
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</table>

PREQ: Prerequisite
### Office Administration and Business Education (OA)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>231</td>
<td>Keyboarding/Word Processing I (3)</td>
<td>3</td>
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<tr>
<td>293</td>
<td>Topics in Office Administration (1-3,R6)</td>
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<tr>
<td>300</td>
<td>Word Processing II (3)</td>
<td>3</td>
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<tr>
<td>304</td>
<td>Business Communications (3)</td>
<td>3</td>
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<tr>
<td>310</td>
<td>Business and Office Education (2)</td>
<td></td>
</tr>
<tr>
<td>340</td>
<td>Information Processing Systems (3)</td>
<td>3</td>
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<tr>
<td>389</td>
<td>Cooperative Education in Office Administration (1 or 3,R15)</td>
<td></td>
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<tr>
<td>393</td>
<td>Topics in Office Administration (1,3,R6)</td>
<td></td>
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<tr>
<td>401</td>
<td>Office Systems and Simulations (3)</td>
<td>3</td>
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<tr>
<td>402</td>
<td>Administrative Management and Policy (3)</td>
<td>3</td>
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<tr>
<td>403</td>
<td>Business Research and Reports (3)</td>
<td>3</td>
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<tr>
<td>415</td>
<td>Administration of Business Education Programs (3)</td>
<td></td>
</tr>
<tr>
<td>483</td>
<td>Internship in Business and Office Education (3,3,3)</td>
<td></td>
</tr>
<tr>
<td>484</td>
<td>Supervised work experience in applications of previously studied theory</td>
<td>S/U grading</td>
</tr>
<tr>
<td>485</td>
<td>PREQ Junior standing 2.0 GPA permission of department head Minimum of 10 hours per week</td>
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</tbody>
</table>

### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>531</td>
<td>Food Preservation (3)</td>
<td>3</td>
</tr>
<tr>
<td>533</td>
<td>Methods in Human Nutrition and Foods (3)</td>
<td>3</td>
</tr>
<tr>
<td>534</td>
<td>Experimental Methods of Foods (4)</td>
<td></td>
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<tr>
<td>536</td>
<td>Advanced Human Nutrition (3)</td>
<td>3</td>
</tr>
<tr>
<td>537</td>
<td>Diet Therapy (3)</td>
<td></td>
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<tr>
<td>538</td>
<td>Clinical Experience in Dietetics (1)</td>
<td></td>
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<tr>
<td>539</td>
<td>Introduction to Professional Practice (3)</td>
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<tr>
<td>630</td>
<td>Nutrition Throughout the Life Cycle (3)</td>
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<tr>
<td>635</td>
<td>Nutrition Education (3)</td>
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<tr>
<td>636</td>
<td>Protein Carbohydrates and Lipids (3)</td>
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<tr>
<td>637</td>
<td>Advanced Diet Therapy (3)</td>
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<tr>
<td>638</td>
<td>Community Nutrition (3)</td>
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<tr>
<td>639</td>
<td>Vitamins and Minerals (3)</td>
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<tr>
<td>681</td>
<td>Practicum in Clinical Dietetics (3,R6)</td>
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<tr>
<td>682</td>
<td>Practicum in Administrative Dietetics (3,R6)</td>
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<tr>
<td>683</td>
<td>Practicum in Community Dietetics (3)</td>
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<tr>
<td>693</td>
<td>Topics in Nutrition and Food Science (1,3,R9)</td>
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<tr>
<td>601</td>
<td>Trends and Issues in Business Education (3)</td>
<td>3</td>
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<tr>
<td>602</td>
<td>(IET &amp; HE 602) Vocational Education History and Philosophy (3)</td>
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<tr>
<td>603</td>
<td>Research in Business Education (3)</td>
<td>3</td>
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<tr>
<td>605</td>
<td>Managerial Communication (3)</td>
<td></td>
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<tr>
<td>683</td>
<td>Internship in Vocational Business Education (3)</td>
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<tr>
<td>684</td>
<td>Internship in a Business Firm (1,3)</td>
<td></td>
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<tr>
<td>693</td>
<td>Topics in Business and Office Education (1,3,R9)</td>
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</tr>
<tr>
<td>695</td>
<td>Seminar in Business and Office Education (3)</td>
<td></td>
</tr>
</tbody>
</table>
Parks and Recreation Management (PRM)

150 Career Opportunities in Parks and Recreation (1)
Exploration of varied career opportunities, career planning, advisement, professional values and requirements, exposure to professionals in the field. 2 Lab/discussion/demonstration

250 Foundations of Parks and Recreation Management (3)
Historical and philosophical development emphasizing natural and cultural resources, current practice settings. PREQ 150 or permission of instructor. 2 Lecture 2 Lab

255 Special Events Planning and Promotion (3)
Approaches and techniques for planning and promoting fairs, festivals, concerts, lectures, benefits, exhibits, campaigns, award ceremonies, and tours. PREQ Permission of instructor. 2 Lecture 2 Lab

270 Theories of Recreation Program Planning and Leadership (3)
Group dynamics and leadership techniques, planning and directing programs in various service settings

321 Outdoor Education (3)
Theory and principles of outdoor education as an interdisciplinary approach to learning in a recreational or educational setting

350 Interpretation of Natural and Cultural Resources (3)
Study and practice in techniques of designing, producing, and presenting interpretive materials and programs, evaluation of commercial and self-made resources. PREQ Permission of instructor. 2 Lecture 2 Lab

370 Internship Orientation (1)
Orientation to the internship, readings, agency contract preparation, personnel record supervision, field work. PREQ Permission of instructor. 2 Lab/discussion/demonstration

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

389 Cooperative Education in PRM (1 or 3, R15)
See page 123

430 Commercial Recreation (3)
Survey of specific commercial recreation enterprises, their unique opportunities and socio-economic political impact. PREQ Permission of instructor. 2 Lecture 2 Lab

431 Maintenance of Sites and Facilities (3)
Principles and practices in planning and organizing maintenance programs in recreational settings. 2 Lecture 2 Lab

433 Outdoor Recreation (3)
The social, economic, and political foundations of outdoor recreation, recreation sites, recreation resource policy. PREQ Permission of instructor. 2 Lecture 2 Lab

434 High Adventure Travel and Outfitting (3)
History, development, and organization of these activities. PREQ Permission of instructor. 2 Lecture 2 Lab

435 Park and Recreation Sites, Facilities, and Programs (1, 6, R6)
Planned tour to study specific types of parks and recreation sites, facilities, and/or programs related to current issues and practices. 1 Lecture or 2 Lab per credit hour
436 Tour Planning and Organization (3)  
Analysis of how to develop itineraries price finance contract advertise, market and escort tours  PREQ  Permission of instructor  2 Lecture  2 Lab

437 Travel Agency Management (3)  
Current principles issues and practices related to the management of contemporary travel agencies  PREQ  Permission of instructor  2 Lecture  2 Lab

440 Travel and Tourism (3)  
The travel and tourist industry national and international locational characteristics, terminology demographics economic impact and trends attitudes and skills required  PREQ  Permission of instructor  2 Lecture  2 Lab

450 Elements of Parks and Recreation Planning (3)  
Elements of site and facility planning and design methods and techniques preparation of a site development plan  PREQ  Permission of instructor  2 Lecture  2 Lab

460 Management of Natural and Cultural Resources (3)  
Analysis of specific considerations and techniques in recreation resource and visitor management historical conservation and restoration management problems  PREQ  Permission of instructor  2 Lecture  2 Lab

461 Community Recreation Management (3)  
History principles organization and supervision of community programs personnel functions agency coordination  PREQ  250 or permission of instructor  2 Lecture  2 Lab

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

483 Internship in Parks and Recreation Management (3,3,3)  
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

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

495 Seminar in Parks and Recreation Management (1)  
Current trends and issues individual research topics employment decision making graduate school advise ment presentation of internship experience  PREQ  Permission of instructor  2 Lab/discussion

Graduate Courses

540 Travel and Tourism (3)  
550 Elements of Parks and Recreation Planning (3)  
560 Management of Natural and Cultural Resources (3)  
561 Community Recreation Management (3)  
580 Independent Study (1-3 R6)

Philosophy (PHIL)

101 Man and Value (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 Socrates  Plato  and Aristotle

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

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

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

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

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

311 Philosophy of Science (3)
   The structure of scientific explanation and discovery  the cognitive status of scientific
   theories  relations between the various natural and social sciences

312 Philosophy of Religion (3)
   Selected topics such as proofs for the existence of God  immortality  the problem of evil
   and the nature of religious belief  action  and experience

320 Ethics and the Professional (3)
   Moral aspects of questions encountered by members of professional communities
   including medicine  law  business and engineering

330 American Philosophy (3)
   Study of major philosophers in America  James Dewey  Peirce  Mead  Whitehead
   Santayana  and Lewis

340 Epistemology (3)
   Primary problems in the theory of knowledge in Western philosophy  PREQ 3 hours
   in philosophy excluding 101 and 201  or permission of instructor

341 Metaphysics (3)
   Central metaphysical issues in Western philosophy  PREQ 3 hours in philosophy
   excluding 101 and 201  or permission of instructor

393 Topics in Philosophy (1-3,R6)
   PREQ  Permission of instructor

493 Seminar in Philosophy (3,R9)
   PREQ 6 hours in philosophy excluding 101 and 201  or permission of instructor

Graduate Courses
593 Topics in Philosophy (1 3 R6)
Physical Education (PE)

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

103 Intermediate/Advanced Swimming and Aquatic Sports (1)
   Swimming strokes and diving American Red Cross outline skills rules conditioning
   and strategy for water polo basketball volleyball and relays PREQ 102 or equivalent
   2 meetings (F5)

104 Lifesaving (1)
   American Red Cross outline applicable toward lifesaving certification PREQ 103 or
   equivalent 2 meetings (F5)

105 Water Safety Instructor Training (1)
   American Red Cross outline for WSI certificate PREQ Current Red Cross Certificate
   in Emergency Water Safety or Lifesaving Training or Advanced Lifesaving 3
   meetings (F5)

106 Scuba Diving (1)
   Snorkel and scuba PREQ 103 or equivalent 2 meetings (F5)

107 Synchronized Swimming (1)
   Creative patterns and movement with music PREQ 103 or equivalent 2 meetings (F5)

108 Canoeing (1)
   Lab fee charged PREQ 103 or equivalent 1 two hour meeting (F5)

113 Hiking (1)
   Safety and skills for organizing hiking and backpacking trips for small groups clothing
   and equipment map and compass choosing hiking areas weekend trips as arranged 2
   meetings (F5)

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

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

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

117 Wrestling (1)
   2 meetings (F5)

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

122 Beginning Tennis (1)
   2 meetings (F5)

123 Beginning Golf (1)
   2 meetings (F5)

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

125 Racquetball (1)
   One wall and four wall racquetball 2 meetings (F5)
126 **Bowling (1)**
   2 meetings (F5)

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

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

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

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

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

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

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

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

209 **Advanced Tennis (1)**
   PREQ  122 or permission of instructor  2 meetings (F5)

210 **Advanced Golf (1)**
   PREQ  123 or permission of instructor  2 meetings (F5)

214 **Tumbling and Rebound Tumbling (1)**
   Tumbling and floor exercises  trampolining  2 meetings (F5)

215 **Gymnastic Apparatus (1)**
   Long horse vault, parallel bars  horizontal bar  rings  side horse  uneven parallel bars balance beam and vault  2 meetings (F5)

223 **Soccer and Basketball (1)**
   2 meetings (F5)

224 **Field Hockey (1)**
   2 meetings (F5)

225 **Volleyball and Softball (1)**
   2 meetings (F5)

226 **Tag Football and Team Handball (1)**
   2 meetings (F5)

227 **Track and Field (1)**
   2 meetings (F5)

228 **Adapted Physical Education (1,R3)**
   Remedial and therapeutic activities  PREQ  Permission of instructor and recommendation of a physician  2 meetings (F5)

230 **Ice Skating (1)**
   Mechanical principles of ice skating  history  equipment, safety of ice skating as a recreational activity  2 meetings (F5)
231 Aquarobles (1)
Pool based non swimming aerobic activity for all ages and fitness levels  2 meetings

Major Courses

130 Lifeguard Training (1)
American Red Cross outline for lifeguarding certificate  PREQ PE 103 or equivalent 3 meetings

150 Career Opportunities (1)
A lecture/discussion series featuring selected professionals from various employment settings in health physical education and therapeutic recreation

213 Introduction to Athletic Training (3)
Prevention of injuries bandaging and the treatment of basic injuries in varsity athletics

250 Elementary School Physical Education Curriculum (2)
Physical education in relation to the total curriculum

251 Dance Dynamics (3)
Methods and materials in creative rhythms singing games folk dances and modern dance  2 Lecture  2 Lab

261 Skill Acquisition I, II, III (1,1,1)
262 Fitness activities aquatic aerobic and weight training skills in 261
263 individual activities stunts/tumbling tennis and golf skills in 262 team activities volleyball soccer and field hockey skills in 263  3 meetings

265 Sports Officials I, II (2,2)
266 Rules techniques and mechanics in sports officiating football softball baseball in 265 basketball volleyball soccer in 266

310 Management of Physical Education and Sport Activity (2)
Study of management functions of physical education intramurals and sport programs  2 Lecture  1 Lab

311 (HEAL 311) Measurement and Evaluation (2)

312 Foundations of Health and Physical Education (3)
The basic physiological psychological and sociological principles and historical foundations

313 Psychological Aspects of Sport (3)
The psychological aspects of sport and coaching methods

314 Organization and Administration of Camping (3)
The nature of camping trends elements of camp design and management

316 Administration of Recreational Agencies (2)
Organizational theory facility program and personnel management in private and commercial recreational agencies  PREQ Permission of instructor

325 Physical Education Curriculum and Methods (2)
Class management, teaching methods and program content for grades K 12

330 Aquatic Recreation Management (3)
Organization programming facility design and maintenance in various aquatic recreational environments  Course may lead to Certified Pool Operator certification

335 Anatomy and Physiology (4)
The study of the structure and function of the human body  PREQ BIOL 134  3 Lecture  1 Lab
Elementary Physical Education (3)
Developmental approach to physical education for the elementary school program 2 Lecture 2 Lab

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

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

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

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

Cooperative Education in PE and Sports (1 or 3,R15)
See page 123

The Elementary Physical Education Curriculum (3)
Basic beliefs guidelines for learning nature of the learner developing and implementing effective programs

Outdoor Leisure Pursuits (1)
Application of principles of outdoor skills to planning implementing and evaluating K-12 school programs 1 Lecture 2 Lab

Coaching Baseball and Football (3)
History methods materials skills and strategies of coaching baseball and football 4 meetings

Coaching Basketball, Track, and Field (3)
Methods materials skills and strategies for women's and men's basketball and track and field 4 meetings

Athletic Injury Assessment (3)
A concentrated study on athletic injury assessment and rehabilitation PREQ 213

Physical Education for the Mentally Retarded (2)
Survey of activities and administration of physical education programs for the mentally retarded

Coaching Softball, Volleyball, and Gymnastics (3)
Methods materials skills and strategies of coaching softball volleyball and gymnastics 2 Lecture 2 Lab

Kinesiology (2)
Structure and function of the human muscular system as related to sports and activities PREQ 335

Methods in Adaptive Physical Education (2)
Physical injuries disabilities illnesses experience in analysis and application of therapeutic modalities PREQ 423 or permission of instructor

Exercise Physiology (2)
The study of the acute and chronic effects of exercise on the human body PREQ 335 2 Lecture 1 Lab

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**

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<thead>
<tr>
<th>Course Code</th>
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<td>Camp Leadership (2)</td>
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<td>600</td>
<td>The Elementary Physical Education Curriculum (3)</td>
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<td>615</td>
<td>Legal Issues for the Physical Education Coach and Sport Administrator (3)</td>
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<td>621</td>
<td>Research in Health Physical Education Recreation and Dance (3)</td>
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<td>Principles of Physical Education (3)</td>
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<td>Administration of Physical Education (3)</td>
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<td>650</td>
<td>Physiology of Motion (3)</td>
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<td>660</td>
<td>Scientific Foundation of Physical Activity (3)</td>
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<td>665</td>
<td>Exercise Testing and Prescription (3)</td>
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<td>675</td>
<td>Issues in Intramurals and Athletics (3)</td>
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<td>676</td>
<td>Research Techniques in Exercise Physiology (3)</td>
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<td>694</td>
<td>Special Problems (1, 3)</td>
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<td>696</td>
<td>Seminar and Practicum in Physical Education (3)</td>
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<td>699</td>
<td>Thesis (3,R6)</td>
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</table>

**Physics (PHYS)**

105 Contemporary Physics (4)
Basic ideas in mechanics, heat, light, sound, electricity, and magnetism; atomic and nuclear physics applications in today’s society. 3 Lecture 2 Lab (P2)

110 (310) Physical Science (3)
The basic properties of matter studied experimentally to lead to the establishment of the atomic model. 4 Lecture/Lab (F3)

130 Introductory Physics (4,4)
131 Noncalculus based treatment of motion, force, energy, heat, electricity, magnetism, light, and modern physics. PREQ MATH 130 130 for 131. 3 Lecture 2 Lab

230 General Physics (4,4)
231 Calculus based study of mechanics, thermodynamics, electricity, and magnetism, optics, and modern physics. PREQ MATH 153 for 230. 230 for 231. 3 Lecture 3 Lab

302 Electronics (4)
Circuit theory, discrete devices, amplifiers, operational amplifiers, integrated circuits, and digital techniques. PREQ 131 and a course in differential and integral calculus. 3 Lecture 3 Lab

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 coordinates, systems of ordinary and partial differential equations. PREQ 131 or 231. MATH 255

322 Optics (4)
Geometrical and physical optics. Introduction to quantum optics. PREQ 131. MATH 255. 3 Lecture 3 Lab

325 Thermodynamics (3)
Classical theory of heat, first and second laws of thermodynamics, enthalpy, entropy, introductory kinetic theory and statistical thermodynamics. PREQ 131. MATH 256

350 Atomic Physics (4)
Quantum phenomena potentials, introductory quantum mechanics, one electron and multiple electron atoms, molecules, introduction to solids. PREQ 310. MATH 256

360 Laboratory Physics (2)
Intermediate experiments in modern physics. PREQ 131 or 231
370 Solid State Physics (3)
Phenomenological treatment of the properties of crystalline solids relationships of properties to the function of solids in modern electronic devices PREQ 131 MATH 256

380 Research in Physics (2,R8)
Physics research projects for individual students PREQ Permission of instructor

389 Cooperative Education in Physics (1 or 3,R15)
See page 123

410 Classical Mechanics (3)
Topics in analytical mechanics using vector operators and differential equations PREQ 320 or MATH 256

420 Nuclear Physics (3)
Nuclear decay models reactions fission fusion lab techniques of instrumentation gamma spectra particle techniques PREQ 131 or 231 and a course in differential and integral calculus 2 Lecture 3 Lab

440 Electricity and Magnetism (3)
Topics in electricity and magnetism using vector operators and differential equations PREQ 410 and 320 or MATH 320

493 Topics in Physics (2-4)
PREQ 350 412 or permission of department head

495 Seminar in Physics (1)
S/U grading

Graduate Courses
601 Topics in Physics Education I II (3 3)
602

Political Science/Sociology (PSOC)

105 (305) Current Political and Social Issues (3)
Analysis of selected social problems and proposed solutions in the light of contrasting political perspectives (conservative liberal radical) (F3)

Political Science (PSC)

106 (300) American Politics and Issues (3)
Analysis of current political institutions and their development within the cultural setting associated problems and interrelationships with other social institutions (P1b)

107 (301) Comparative Political Cultures (3)
Impact of cultural differences on the policies and political perspectives of various First Second and Third World nations comparison and contrast of contemporary examples (P4)

108 Global Issues in Politics (3)
Analysis of major international issues influencing the development of recent history (P5)

231 American Government and Politics (3)
The American political system introduction to government institutions and how politics shapes policies

302 Problems and Policies of American Government (3)
Alternative public policies in selected areas social welfare health care resources labor agriculture civil rights business taxation defense and education
303 State and Local Government (3)
Structure and functions of state and local government processes of policy formation

304 Public Administration (3)
Administrative theory and practice implementation of governmental policies case studies of the administrative process in such areas as business regulation health care and law enforcement

305 Congress (3)
Congress as an institution its role in the formulation of national policies case studies dealing with legislation in the various areas of national policy

306 American Presidency (3)
The chief executive his advisers role playing and decision making in the executive branch

307 Civil Service Administration (3)
Policies methods and techniques used in civil service systems problems and procedures in the public sector local state and national

309 The Politics of Budgeting (3)
Budgetary aspects of national state and local government operations budget formulation execution and enactment revenue resources politics of process

310 Constitutional Law Structure and Powers (3)
Analysis of judicial review constitutional powers of the branches of government federalism sources of regulatory authority and constitutional protection of political rights

315 European Political Systems (3)
Comparison of the political systems of selected nations

316 Politics of Developing Areas (3)
Comparative analysis of developmental processes pursued through political military economic and administrative structures of Third World nations case studies

317 Politics of East Asia (3)
Selected political systems of East Asia factors involved in political change and modernization

318 Soviet Political System (3)
The making of domestic and foreign policy by the Communist Party as a respondent to and a representative of the Russian political culture

319 Latin American Political Systems (3)
Institutions groups parties and processes problems of political development, modernization and change

331 International Politics (3)
Components and characteristics of the international political system conflict and cooperation in international relations changing nature of international behavior

332 International Organization (3)
Global and regional organizations promoting settlement of disputes collective security economic development human rights self government

333 International Law (3)
Rules and practices regulating such matters as state territory and jurisdiction treaties nationality and treatment of aliens diplomatic and consular relations warfare

334 United States Foreign Policy (3)
Policies governing America's foreign relations personnel and agencies responsible for policy implementation role of the United States in world affairs since World War II
335 Problems in World Politics (3)
Contemporary issues in international politics international problem solving methods and applications

336 Mass Media and American Politics (3)
Examination and assessment of the power and influence of the mass media in American politics emphasis on television

345 Ancient and Medieval Political Thought (3)
Political philosophers from Plato to Thomas Aquinas their ideas examined and related to current issues

346 Modern Political Thought (3)
Political philosophers from Machiavelli to Mill ideas providing the basis of modern political discussion and controversy examined

347 American Social and Political Eras (3)
American social and political ideas from the Federalist Papers to the present

348 Political Analysis (3)
Research methods and theoretical approaches for describing explaining and solving domestic and foreign policy problems PREQ 231 or permission of instructor

349 Simulation and Gaming (3,R6)
Development, use and direction of machine and nonmachine games and simulations in the instruction exposition and research of political phenomena

389 Cooperative Education in Political Science (1 or 3,R15)
See page 123

407 American Political Parties (3)
American political parties and their role in the government and politics of contemporary society current national issues dividing the parties examined

409 National Security Policy (3)
Substance and processes of strategy and policy making relationship of power to foreign policy PREQ 231 or permission of instructor

411 Civil Rights and Liberties (3)
Judicial interpretation of the First Amendment rights of the accused and racial minorities right of privacy

421 Political and Organizational Leadership (3)
Concepts and processes of leadership related to political and public organizations PREQ 6 hours in political science or permission of instructor

436 Dynamics of World Order (3)
Alternative approaches to meeting social and political needs in a changing global environment conditions and practices of interdependence

449 Political Socialization (3)
Social and psychological processes related to the development of political values and ideas

480 Readings in Political Science (3)
PREQ Departmental permission

483 Internship in Political Science (3,3,3)
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

495 Honors Seminar (3)
Enrollment by invitation only preference given to seniors

Graduate Courses
507 American Political Parties (3)  549 Political Socialization (3)
509 National Security Policy (3)  580 Reading in Political Science (3)
511 Civil Rights and Liberties (3)  593 Contemporary Political Systems (3,R6)
521 Political and Organizational Leadership (3)  595 Seminar The American Political System (3)
536 Dynamics of World Order (3)  693 Topics in Political Science (1-6,R9)

Psychology (PSY)

101 (301) Perspectives on Human Behavior (3)
Applications of basic methods of study and knowledge of human behavior in relation to the social cultural and physical environment (Pla)

105 (305) Thinking, Reasoning, and Expression (3)
Practice in problem solving using mental imagery applying critical thinking analyzing the components of reasoning and valuing and generating and evaluating solutions (F3)

250 General Psychology (3)
Overview of psychology and the scientific study of behavior topics in social abnormal developmental physiological psychology and personality sensation perception and learning

251 Research Methods I Statistics (3)
Statistical description and inference central tendency and variability correlational measures parametric and nonparametric tests of significance PREQ An algebra course

252 Research Methods II Experimentation (3)
Naturalistic observation and correlational research research designs and statistics ethical issues data collection and analysis writing formal papers PREQ 250 or permission of instructor 251

280 Research in Psychology I (1,3, R3)
Introductory level supervised bibliographical or research activity S/U Grading PREQ Permission of instructor

293 Contemporary Issues in Psychology (1,R3)
A forum for topics of current interest in psychology

310 Social Psychology (3)
Social influences on individual behavior feelings and thoughts social psychological approaches to problems of attitudes conformity leadership and other group phenomena PREQ 250 or permission of instructor

313 Organizational and Industrial Psychology (3)
Structure methods techniques and application of psychological concepts to human problems of work in organizations PREQ 250 or permission of instructor

320 Child and Adolescent Development (3)
Theories and principles of development from conception through adolescence PREQ EDCI 231 and admission to professional education sequence or permission of the psychology department head field experience required
321 Educational Psychology (3)
Application of psychological principles to teaching cognition learning motivation measurement individual differences and behavior management PREQ EDCI 231 PSY 320 and admission to professional education sequence or permission of the psychology department head field experience required

324 Development Conception through Adolescence (3)
Theories and principles of physical cognitive emotional and social development of human beings from conception through adolescence PREQ 250 or permission of instructor

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

327 Psychology of Aging (3)
The process of aging during the later years biological psychological and cognitive changes theories of aging counseling approaches PREQ 250 or permission of instructor

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

333 Psychology of Sex Differences (3)
Development of sex differences and similarities in cognition personality and social behaviors the role of physiological social and cultural factors PREQ 250 or permission of instructor

343 Sensation and Perception (3)
Analysis of the sensory and perceptual systems review of theories and research on how visual and auditory stimuli are analyzed and interpreted by the brain PREQ 250

360 Psychological Testing (3)
History theory and practice of measurement test development and standardization evaluation of intelligence achievement aptitude and personality PREQ 250 or permission of instructor

363 Behavioral Intervention (3)
A survey of behavioral theory covering both nonmediational and mediational approaches Applications of behavioral theory to a variety of difficulties including school and clinical settings PREQ 250 or permission of instructor

389 Cooperative Education in Psychology (1 or 3,R15)
See page 123

393 Topics in Psychology (3, R9)
PREQ 250 or permission of instructor

410 Individual Psychology (3)
Theory and practice related to self understanding problem solving and interpersonal relationships PREQ 250 and 6 hours of psychology or permission of instructor

412 Attitudes and Public Opinion (3)
Attitude structure and functions attitude behavior controversy attitude change public opinion and mass communication PREQ 250 or permission of instructor

426 Death and Dying (3)
Psychological foundations and correlates of death anxiety and grief cross-cultural
perspectives death education and stages in children's awareness coping with grief and fears PREQ 250 or permission of instructor

430 Personality (3)
Assumptions constructs and theories of personality related empirical findings PREQ 250 or permission of instructor

440 Physiological Psychology (3)
Physiological and biochemical bases of behavior sensation neurophysiological correlates of learning memory sleep other topics PREQ 250 or permission of instructor

441 Health Psychology (3)
Psychological foundations of health and illness exploration of the impact of thoughts emotions and behavior on the development treatment and prevention of illness and the maintenance of health PREQ 250 or permission of instructor

444 Language, Memory, and Cognition (3)
Theories and principles of human information processing language production and comprehension basic processes in memory and cognition PREQ 250 or permission of instructor

448 Human Neuropsychology (3)
Survey of the basic theories of neuropsychology emphasizing both cognitive and clinical research The course will focus on the influence of the human brain on normal and abnormal behavior PREQ 250 or permission of instructor

455 Systems and Theories in Psychology (3)
Systematic survey of psychology as a scientific endeavor from early approaches to contemporary schools and trends PREQ 250 or permission of instructor

460 Crisis Intervention (1)
Theory and nature of crises intervention strategies for dealing with a variety of crises such as physical assault rape suicide and natural disasters

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

474 The Emotionally Disturbed Child and Adolescent (3)
Etiology characteristics assessment and treatment of deviation learning difficulties behavioral and psychotic disorders problems of the handicapped PREQ 250 or permission of instructor

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

482 Internship in Psychology (3,3,3,3)
Application of theory methods and techniques in a cooperating agency under faculty supervision PREQ 2.0 GPA 20 hours of psychology and a course in methods of counseling or permission of instructor 9 hours applicable to major 10 hours per week per course

495 Senior Seminar in Psychology (3)
Overview of the history and current state of psychology Discussions of important facts issues concepts and theoretical perspectives in psychology PREQ Senior status as a psychology major
### Graduate Courses

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
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<tr>
<td>510</td>
<td>Individual Psychology (3)</td>
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<td>512</td>
<td>Attitudes and Public Opinion (3)</td>
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<td>515</td>
<td>Community Psychology (3)</td>
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<td>526</td>
<td>Death and Dying (3)</td>
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<td>Personality (3)</td>
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<td>Health Psychology (3)</td>
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<td>Language Memory and Cognition (3)</td>
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<td>Systems and Theories in Psychology (3)</td>
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<td>Abnormal Psychology (3)</td>
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<td>The Emotionally Disturbed Child and Adolescent (3)</td>
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<td>Advanced Social Psychology (3)</td>
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<td>Adulthood and Aging (3)</td>
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<td>Advanced Research Methods (3)</td>
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<td>Assessment and Intervention with Infants (3)</td>
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<td>Advanced Psychopathology (3)</td>
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<td>Survey of Clinical Psychology (3)</td>
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<td>Topics in Psychology (3,R9)</td>
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### Public Affairs (PA)

#### Graduate Courses

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<td>Government Business Relations (3)</td>
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<td>572</td>
<td>Public Policy Formulation (3)</td>
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<td>670</td>
<td>Public Affairs Administration (3)</td>
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<td>Budgetary Processes (3)</td>
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<td>Governmental Organizations (3)</td>
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<td>Statistics and Decision Making (3)</td>
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<td>Government and Press Relations (3)</td>
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<td>685</td>
<td>Internship in Public Affairs (3)</td>
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### Radio and Television (RTV)

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

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

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

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

#### 301 (JOUR 301) Writing for Mass Communications (3)
Elements of news news values basic interviewing techniques writing principles and fundamentals styles used in journalism broadcasting advertising and public relations PREQ ENGL 102 RTV/JOUR 140 basic typing skills

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

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

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

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

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

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

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

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

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

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

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

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

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

Reading (EDRD)

150 Introduction to College Reading (3)
Reading course to help freshmen become better prepared for reading college-level material. Credit earned in this course will not count toward 128 hours required for graduation

250 College Reading and Vocabulary (3)
Extending skills for college and recreational reading. Emphasis on vocabulary and comprehension
280 Speed Reading (3)
Techniques for improving reading speed efficiency vocabulary and study habits skimming pacing eye exercises comprehension and retention 2 Lecture 2 Lab

320 Phonics and Word Analysis (3)
The basics of phonics and word analysis skills used to teach reading

323 Reading and Communication Skills in Content Areas (2)
Methods for teaching reading and other communication skills in content areas  PREQ Admission to the professional-education sequence

334 Reading Instruction in the Elementary School (3)
Methods and materials for teaching reading in grades K-6 integration of communication skills in the total developmental reading program  PREQ Admission to the professional sequence or permission of the instructor

389 Cooperative Education in Reading (1 or 3,R15),
See page 123

443 Middle Grades Reading (3)
Methods and materials for teaching reading and other communication skills in the middle grades emphasis on organization for instruction word identification and comparison skills and reading in content materials

453 High School and Adult Reading (4)
Methods and materials for teaching reading in high school and adult education  PREQ  333 or 443  3 Lecture 2 Lab

474 Diagnostic Teaching of Reading (3)
Assessment and remediation of reading problems and strategies for teaching reading  PREQ EDRD 334 or 443 or 453 or permission of the instructor  2 Lecture 2 Lab

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

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

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

380 Independent Study (1 3,R6)

493 Topics in Religion (3,R6)
Science Education (SCI)

293 Shop for Science Teachers (3)
Design, construction, and repair of simple laboratory apparatus and electronic equipment; basic work with wood, metal, glass and soldering. 6 Lab

331 Methods and Materials for Elementary Science (2)
Integrated lab experiences in microteaching 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)


Graduate Courses

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

Secondary Education and Special Subject Teaching (EDSE)

Methods and Materials for Secondary Teaching
Methods, materials, curriculum, and trends in teaching in the secondary schools. PREQ: EDCI 231

313 Social Studies (2)

322 Principles and Methods of Teaching (3)
Methods, strategies, materials, and techniques of clinical and classroom teaching. PREQ: Admission to the teacher-education program or permission of department head

486 Field Experience in Teaching (3,R6)
Supervised experience for a second teaching certification or for an initial certification for individuals who are employed as full-time teachers. 9 hours per week

487 Teaching Practicum in Clinical Settings (1,R3)
Experience using teaching techniques, materials, and methods for individualized instruction in job-related settings. S/U grading. PREQ: Junior standing and permission of adviser and department head. 1 Lecture 1 Lab

490 Supervised Student Teaching (9)
A full-time teaching experience. COREQ 495

492 Supervised Student Teaching in Health Education (6)
COREQ 495 HEAL 492

495 Student Teaching Seminar (3)
Theory related to practice during student teaching. COREQ 490
Graduate Courses
586 Internship in a Second Teaching Area (3) 680 Independent Study in the Secondary Curriculum (1 1)
681

Social Sciences (SSC)
414 Cross-Cultural Communications (3)
Cultural differences affecting communications between Americans and others

Graduate Course
514 Cross-Cultural Communications (3)

Social Work (SOCW)
151 Introduction to Social Work (3)
Social work as a profession: history, current practice settings, professional values and requirements

231 Foundations of Family Service Skills (3)
Introduction to helping skills for practitioners working with children and their families

232 Performance Based Skills for Social Service Providers (3)
Integrates and further develops helping skills into performance standards for effective practice with children and families

233 Competency Based Practice Experience (3)
Practice experience in an agency related to skills learned in 231 and 232. S/U grading
PREQ 231 and 232 10 hours per week

251 Social Welfare Policies, Programs, and Services (3)
Historical development of social welfare policies; policy development and change understanding the political process and the relationship to social work values

253 Foundations of Social Work Practice (4)
Basic knowledge, values, and skills of the profession; emphasis on use of self and the generalist approach with micro systems. PREQ 151 or permission of department head
3 Lecture 2 Lab

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

304 School Social Work (3)
Practice in the school system, its content, history, and legal framework. Special needs children, designs, delivery, and evaluation of services

326 Child Welfare (3)
Child welfare services, public and private programs, children's rights, and issues affecting services for children and families

327 Social Work with Families (3)
Concepts and skills for intervention with families; emphasis on use of family strengths and community resources in family problem solving. PREQ or COREQ CDFR 364 admission to major or permission of instructor

329 Social Work with Older Adults (3)
Concepts and skills for effective practice with the aging; needs and strengths of older people, community resources, professional approaches to intervention
330 Social Work in the Health Field (3)
Concepts and skills for social work practice in hospitals, outpatient clinics, and other health settings

362 Social Work Practice I, II (4,4)
364 Application of knowledge and skill to social work practice: discussion and simulation of functions and task roles, expansion of professional use of self-emphasis on micro-systems in 362 and macrosystems in 364. PREQ 251 253 PREQ or COREQ SOCW 327 and admission to the major for 362 362 for 364. 3 Lecture 2 Lab

373 Social Welfare Policy Issues and Analysis (3)
Current legal, political, economic, and social issues that influence the profession and practice of social work. PREQ 251 PSC 302 303 or 304 or permission of instructor

389 Cooperative Education in Social Work (1 or 3,R15)
See page 123

393 Topics in Social Work (3,R9)

395 Seminar in Social Work (1-3, R9)
Current trends and issues for practice studies of social work agencies and programs, examination of social welfare policies and concerns. PREQ Permission of instructor

402 Person, Environment, Culture (3)
Integration of human behavior and social environment: emphasis on selected subcultures and minority groups. PREQ SOC 314 or 414 SOCW 327 or permission of instructor

466 Social Work Research and Evaluation (4)
Scientific methods of research used in building practice knowledge and evaluating service delivery. PREQ 362 or permission of instructor. 3 Lecture 2 Lab

480 Senior Seminar (2)
COREQ 496

481 Independent Study (1, 3, R6)
PREQ 253 or permission of department head

483 Internship in Social Work (3, 3, 3)
484 Work experience in an agency related to the student’s interest and career objectives
485 S/U grading. PREQ Permission of instructor. 10 hours per week per course

486 Field Experience (4, 4, 4)
487 Full-time supervised placement in selected human service agencies to integrate theory with practice and prepare for professional responsibility. Concurrent enrollment required. PREQ 364 COREQ 496

496 Field Seminar (3)
Integration of content with field practice. COREQ 486 487 488

Graduate Course
593 Topics in Social Work (1, 3, R6)

Sociology (SOC)

103 (300) Human Society (3)
Analysis of human behavior in social and cultural contexts, emphasizing the sociological perspective (P1a)

105 (PSC/SOC 105/308) Current Political and Social Issues (3) (F3)
231 Principles of Sociology (3)
Analysis of human social behavior basic concepts in current theory and research

304 Social Change (3)
Changes in human societies through cultural economic social and political processes introduction to development social movements and social conflict

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

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

330 Rural Society (3)
Application of sociological concepts to rural environments Characteristics of rural population social structure and social institutions Social change structure of agriculture and local government structure and processes are considered

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

350 Deviant Social Behavior (3)
Causes and control of individual and group rebellion or retreat from prescribed social norms

354 Social Problems (3)
Problems of modern American society such as poverty social conflict corporate power and capitalism alienation and deviance

355 Criminology (3)
Nature extent and causes of criminal behavior role of police courts and corrections prevention and control programs

380 (ANTH 380) Ethnographic Research Methods (3)

385 Methods of Social Research (3)
The logic of scientific inquiry techniques of research used in sociology including sample surveys PREQ 3 hours in sociology

386 Analysis of Social Data (3)
Methods for presentation and analysis of social scientific data descriptive and inferential techniques measures of association PREQ 385

389 Cooperative Education in Sociology (1 or 3,R15)
See page 123

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

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

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

432 Community Organization and Development (3)
Community organization viewed as a process of bringing about desirable changes in community life Community structure needs assessment, and planning for change
434 Regional and Societal Development (3)
Social dimensions of economic growth and development with particular emphasis on Third World countries alternative definitions of development, problems related to the implementation of change in the context of national regional and institutional structures

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

454 Sociology of Conflict and Conflict Resolution (3)
Analysis of sociological theories of social conflict, including Marx Weber Summel Coser Dahrendorf and Collins case studies of conflict and conflict resolution stressing the applications of theory and research

480 Independent Study in Sociology (1 2 R6)
PREQ Written application permission of instructor and adviser

483 Internship in Sociology (3,3,3)
484 Application of theory and knowledge to work experience in a cooperating agency
485 S/U grading Three hours credit applicable to sociology major or minor 9 hours per week per course

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)

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)
232 Continuation of oral and written Spanish grammar readings and discussion on Spanish culture and civilization readings in more specialized areas lab practice may be assigned PREQ 132 or equivalent or placement for 231 231 or equivalent or placement for 232

240 Intensive Spanish II (6)
Continuation of 110 increasing emphasis on reading and writing skills PREQ Permission of instructor 4 Lecture 5 Lab 5 Drill

301 Spanish Composition (3)
PREQ 232 or equivalent or placement
302 Conversational Spanish (3)
Advanced intermediate course emphasizing topical dialogue  
PREQ 232 or equivalent or placement

303 Applied Spanish Conversation (3,R6)
Apprenticeship in the intensive language program  
PREQ 232 or 240 sophomore standing selection by faculty  10 Lab

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K 12  
PREQ Admission to professional sequence or permission of instructor

321 Spanish Civilization (3)
Geographical, political, cultural and historical aspects of Spain  
PREQ 232 or 240  
PREQ or COREQ 301 or 302 or permission of department head

322 Latin American Civilization (3)
Geographical, political, cultural and historical aspects of Latin America  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

331 Survey of Spanish Literature I, II (3)
The main literary movements, authors, and works in Spain since the 12th century  
course division at 15th century  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

333 Survey of Latin American Literature (3)
Literary movements, authors, and works of Latin America  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

335 Introduction to Spanish Prose and Poetry (3)
Introduction to Spanish literary texts, reading and analysis of literary works  
PREQ 232 or 240

351 Spanish Phonetics and General Linguistics (3)
Analysis of the Spanish sound system, intensive drill in pronunciation, articulation  
tonation and rhythm, introduction to linguistics  
PREQ 232 or 240  
PREQ or COREQ 301 and 302 or permission of department head

389 Cooperative Education in Spanish (1 or 3,R15)
PREQ 301 302  See page 123

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
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 page 123

401 Introduction to Learning Disabilities (3)
Historical concepts and theories of learning disabilities educational characteristics of learning-disabled children overview of remedial programs PREQ 240

405 Introduction to Mental Retardation (3)
Multidisciplinary approach to mental retardation mental performance and functioning related to human development PREQ 240 or permission of department head

413 Teaching Adolescents with Learning Problems (3)
Survey and evaluation of curricular models diagnosis developing instructional strategies establishing goals and objectives PREQ 312 admission to professional education sequence senior status

417 Managing Classrooms for Exceptional Children (3)
Principles and techniques of classroom and behavior management PREQ 240 and admission to the teacher-education program

420 Reading for the Exceptional Child (3)
Instructional strategies suited to the needs of the exceptional child assessment of weaknesses and strengths in reading PREQ 240 310 320

432 The Physically Handicapped Child (3)
Social psychological and medical problems of children with physical disabilities

450 Individual Educational Plans for Students with Disabilities (3)
Development of Individual Educational Plans (IEPs) formal and informal assessment and instructional planning study of federal and state regulations PREQ 240 and admission to the professional-education sequence

460 The Gifted Child (3)
Characteristics problems and special needs of gifted and talented children and youth
461 Teaching the Gifted Student (3)
Approaches under common administrative structures and in ideal settings applications of learning theories

462 The Bright Underachiever (3)
Problems involving bright average and highly gifted children with a variety of educational limitations

485 Field Experience in Teaching (3, R6)
Supervised experience for a second teaching certificate or for an initial certification for individuals who are employed as full-time teachers 9 hours per week

486 Practicum in Mental Retardation (1, 3)
3 hours per credit hour PREQ Written application permission of instructor and adviser

487 Practicum in Learning Disabilities (1, 3)
3 hours per credit hour PREQ Written application permission of instructor and adviser

489 Practicum in the Gifted and Talented (1, 3)
3 hours per credit hour

490 Supervised Student Teaching (9)
A full-time teaching experience COREQ 495

495 Special Education Seminar (3)
Working with parents teachers students and others in a helping consultative relationship skills for effective participation on interdisciplinary teams PREQ 240 and admission to the teacher education program COREQ 490

Graduate Courses

501 Introduction to Learning Disabilities (3)
504 Educational Programs for Students with Behavioral Disorders (3)
513 Teaching Adolescents with Learning Problems (3)
529 Educational Programs for Students with Mental Retardation (3)
531 The Physically Handicapped Child (3)
550 The Gifted Child (3)
551 Teaching the Gifted Child (3)
552 Special Population in Gifted Education (3)
560 Structure and Function of the Eye (3)
561 Methods of Teaching the Visually Impaired (3)
562 Orientation and Mobility for the Visually Impaired (3)

593 Topics in Special Education (1, 3, R6)
600 Creative Thinking and Problem Solving (3)
603 Administration of Special Education Programs (3)
604 Current Issues in Special Education (3)
630 Teaching Students with Mild to Moderate Mental Retardation (3)
631 Appraisal of Exceptional Children (3)
681 Seminar in Learning Disabilities (3)
682 Research in Special Education (3)
684 Teaching Students with Behavioral Disorders (3)
687 Practicum in Special Education (1, 3, R3, 1, 3, R3)
688

Communication and Theatre Arts (STA) (formerly Speech and Theatre Arts)

102 Theatre Production Stagecraft (1)
Hands on participation in the construction/painting of stage scenery 4 Lab (F5)

103 Theatre Production Costume (1)
Hands on participation in the construction of stage costumes and accessories 4 Lab (F5)

104 (304) The Theatre Experience (3)
Analysis of what theatre is about, what goes on in theatre and what it means to be a viewer (P3b)

110 (310) Persuasive Thinking, Reasoning, and Expression (3)
Development of thinking reasoning and oral skills through various rhetorical problems
and simulations emphasis on the student's analysis synthesis integration communication and valuing behaviors (F3)

130 Makeup (1)
Application of stage makeup

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

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

140 Acting I (3)
Basics of acting

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

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

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

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

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

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

311 Voice and Articulation (3)
Effective speech production individual practice standards of good diction introduction to phonetics

312 Group Discussion and Conference (3)
Techniques for participation in small groups roles of group leader and participant practice in problem solving deliberation parliamentary practice

313 Argumentation and Debate (3)
Analysis evidence refutation reasoning techniques of delivery participation in debate required

314 Advanced Public Speaking (3)
Special problems in speech communications delivery PREQ 250

315 Organizational and Industrial Communication (3)
Channels of oral communication in complex organizations organizational influences on communication

316 Psychology of Speech (3)
Psychological principles active in speech communication

320 Oral Interpretation of Literature I (3)
Principles of oral interpretation literary analysis practice in prose poetry drama
321 Oral Interpretation of Literature II (3)
    Advanced techniques analysis practice individual repertoire

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

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

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

340 Acting III (3)
    Acting theories characterization PREQ 240

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

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

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

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

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

389 Cooperative Education in STA (1 or 3,R15)
    See page 123

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

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

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

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

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

430 Scene Design II (3)
    Advanced theory and techniques of scene design technical drawing models rendering
    PREQ 330

435 Lighting Design II (3)
    Advanced problems in stage lighting nonproscenium lighting special effects PREQ
    335
438 Costume Design II (3)
Advanced theory and techniques of costume design, production design, rendering
PREQ 338

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

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

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

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

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

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

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

495 STA Seminar (3, R15)

499 BFA Thesis (2)

Graduate Courses
586 Theatre Production (3)
595 STA Seminar (3)

Sport Management (SM)

260 Introduction to Sport Management (2)
Survey of career opportunities and competencies

315 Introduction to Intramurals and Recreational Sport Management (3)
Organization, administration, history, and theoretical concepts of intramurals and
recreational sport management in the public school, college, and military settings
PREQ Junior standing or permission of instructor

380 Independent Study (1-3, R3)
A topic in sport management agreed upon by student and instructor
PREQ EH 102
permission of department head

383 Apprenticeship (1, R3)
Apprenticeship to develop necessary skills before entering the required internship
PREQ Permission of department head
3 Lab

389 Cooperative Education in Sport Management (1 or 3, R15)
PREQ Permission of instructor
See page 123
415 Legal Issues for the Sport Practitioner (2)
Study of legal issues as they pertain to sport delivery systems physical education and recreational activity settings. Basic legal terminology risk management litigation procedures case law and current issues are analyzed. PREQ Senior standing or permission of instructor.

423 (SOC 423) Sociology of Sport (3)
Social issues in sport examined from historical, cross-cultural, and sociological perspectives with attention to impact of race, gender, and social class on participation.

435 Event and Facility Management and Marketing (3)
Study of current trends and the management and marketing of sporting events and sport facilities. Basic terminology and building designs of sport facilities are also discussed. PREQ Senior standing or permission of instructor.

495 Sport Management Seminar (1)
Analysis of management in a specific organization related to the student's internship. PREQ Permission of adviser and department head. 2 Seminar.

484 Internship in Sport Management (6,6)
485 Experiences relating to practice in a specific area of sport management. PREQ Permission of department head. 12 weeks. 20 hours per week per course.

Therapeutic Recreation (TR)

240 Foundations of Therapeutic Recreation (3)
The provision of recreation services as a vehicle for human growth and development emphasis on the needs of the ill, disabled, and disadvantaged.

253 Activity Skills for Special Populations (2)
Active and passive games and other social events for improving the health and self image of people with special needs.

352 Therapeutic Recreation Processes and Techniques (3)
Leadership, programming, and client evaluation principles for various treatment settings. PREQ 240.

360 Therapeutic Recreation Services for the Elderly (3)
An investigation of therapeutic recreation provision for the elderly through a service continuum model.

385 Pre Internship Seminar (1)
Overview of NCTRC standards for professional certification personal communication skills practicum documentation procedures internship site selection. PREQ TR major junior standing.

389 Cooperative Education in Therapeutic Recreation (1 or 3, R15)
See page 123.

396 Special Topics (1-3)

417 Administration of Therapeutic Recreation Services (3)
Organization function and management of agencies providing recreation services to special populations. PREQ 240.

470 Personal Growth Through Outdoor Adventure (3)
Strategies and techniques for conducting individual and group initiatives values clarification sessions and environmental awareness exercises in an outdoor setting. Field trips required. PREQ permission of instructor. 2 Lecture. 2 Lab.

481 Independent Study (1-3)
Field Experience in Therapeutic Recreation (6,6)
Experience designed to integrate theory with practice observation field work and planning in a setting related to student's area of interest. PREQ Permission of program coordinator. TR major. 3 hours per credit hour

Graduate Course
570 Personal Growth Through Outdoor Adventure (3)

University Studies-Interdisciplinary (USI)

101 Honors Forum (1)
Interdisciplinary introduction to the academic milieu—scholarly controversy: the ferment of ideas, study, and research.

130 Academic and Career Planning (1) (formerly COUN 130)
Introduction to the university and to higher education. Discussion of issues involved in the transition from high school to college. Emphasis on academic and career planning and personal development.

393 Topics in International Studies I (3, R6)
Interdisciplinary introduction to the civilization and culture of a particular country or region and its relationship with the United States.

394 Topics in Cherokee Studies (3, R9)
Selected individual or interdisciplinary aspects of Cherokee culture and society offered by various departments.

395 Topics in International Studies II (1-3, R4)
Interdisciplinary study of the civilization environment, and culture of a country or region and its relationships with the United States and the world community.

396 Honors Colloquium (3, R6)
Interdisciplinary discussion of a topic of special concern selected in consultation with honors students. PREQ Junior standing. 3.0 GPA.

497 Honors Seminar (3, R6)
Interdisciplinary seminar featuring student research directed toward a topic selected in consultation with honors students. PREQ Junior standing with 3.0 GPA.
THE REGISTER

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-campuses state university.

The University of North Carolina, chartered by the NC General Assembly in 1789, was the first public university in the United States to open its doors and the only one to graduate students in the eighteenth century. The first class was admitted in Chapel Hill in 1795. For the next 136 years, the only campus of the University of North Carolina was at Chapel Hill.

In 1877, the NC General Assembly began sponsoring additional institutions of higher education diverse in origin and purpose. Five were historically black institutions and another was founded to educate American Indians. Several were created to prepare teachers for the public schools. Others had a technological emphasis. One is a training school for performing artists.

In 1931, the NC General Assembly redefined the University of North Carolina to include three state-supported institutions: the campus at Chapel Hill (now the University of North Carolina at Chapel Hill), North Carolina State College (now North Carolina State University at Raleigh), and Woman's College (now the University of North Carolina at Greensboro). The new multi-campus University operated with one board of trustees and one president. By 1969, three additional campuses had joined the University through legislative action: the University of North Carolina at Charlotte, the University of North Carolina at Asheville, and the University of North Carolina at Wilmington.

In 1971, the General Assembly passed legislation bringing into the University of North Carolina the state's ten remaining public senior institutions: each of which had until then been legally separate Appalachian State University, East Carolina University, Elizabeth City State University, Fayetteville State University, North Carolina Agricultural and Technical State University, North Carolina Central University, the North Carolina School of the Arts, Pembroke State University, Western Carolina University, and Winston Salem State University. This action created the current 16-campus University. In 1985, the North Carolina School of Science and Mathematics, a residential 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 of 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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Assistant to the President
WESTERN CAROLINA UNIVERSITY

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 President Robert Lee Madison, the institution's founder, the aim of the school was teacher training. In 1893, with the first state appropriation of $1,500, a normal department was established. In 1905, the institution became Cullowhee Normal and Industrial School, a title it held for twenty years.

Beginning about 1912, the status of the school was gradually raised to that of a two-year normal school or junior college. With state support increasing and work at the secondary level discontinued, the name of the school was changed in 1925 to Cullowhee State Normal School.

In 1929, under a new charter authorizing the school to extend its work to the four-year level, the name Western Carolina Teachers College was adopted. Modifications in function and rapid growth were climaxed in 1951 by the addition of the postgraduate year to the curriculum and the granting of the Master of Arts in Education degree. 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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1991-92

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Chancellor
Assistant to the Chancellor
Western Carolina University Programs in Asheville
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Doyle Craig Wells B S
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Volleyball Coach  Assistant Sports Information Director
Assistant Football Coach
Assistant Football Coach
Head Basketball Coach
Assistant Basketball Coach
Assistant Basketball Coach
Assistant Football Coach
Men's and Women's Track and Cross Country Coach
Business and Ticket Manager
Associate Director of Athletics  Sports Information Director
Men's and Women's Tennis Coach
Assistant Athletic Trainer
Information and Communications Specialist
Administrative Assistant/Eligibility Coordinator
Assistant Football Coach

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Director of Retention Services
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Assistant Director Admissions
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Assistant Director Admissions
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Director  University Center
Director  University Health Services
Director  Counseling Center

Director
Assistant Director
Fellow
Senior Fellow
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Fellow
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1992-93

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pointment, 1990

Harry Eugene Ramsey, M S W
Assistant to the Chancellor Western Caro-
olina University Programs in Asheville As-
sociate Professor of Social Work B S Ed
Western Carolina University 1959 M S W
Florida State University 1961 Date of ap-
pointment, 1964
*Mildred Kay Randolph, Ph D
Assistant Professor of Psychology B S College of Charleston 1980 M A Ph D University of South Carolina 1985 1987 Date of appointment, 1988

*Robert Glenn Ray, Ed D
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Robert Mitchell Rigdon, Ed D
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*Anne Frazer Rogers, Ph D
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*Yvonne Noland Saddler, Ed S
Assistant Professor of Education B S Ed M Ed Ed S University of Georgia 1969 1971 1972 Date of appointment, 1972

**Truly Safrit, B A
Instructor of Human Environmental Sciences B A Depauw University 1962 Date of appointment 1992

**Sandra M Saunders, M A
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*Charles Willard Schrader, Ed D
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Max Moise Schreiber, Ph D
Associate Professor of Economics B A M A Ph D University of South Carolina 1971 1975 1978 Date of appointment 1977

*George Monmonier Schuncke, Ph D
Professor of Elementary Education and Reading B A LaSalle College 1965 M A San Francisco State College 1970 Ph D Stanford University 1974 Date of appointment 1984

*Gerald Schwartz, Ph D
Professor of History B A Mexico City College 1960 Ph D Washington State University 1969 Date of appointment, 1969

Mary S Schwartz, M A
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*David Allen Shaprio, Ph D
Associate Professor of Education M S University of Vermont 1977 Ph D Indiana University 1984 Date of appointment, 1984

Elizabeth Simmons Rowland, M S
Assistant Professor of Nursing B S M Northeastern University 1977 M S Boston University 1980 Date of appointment 1989

**Dan T Sipes, M M
Lecturer of Music B M Arizona State University 1982 M M Appalachian State University 1987 Date of appointment, 1991

*Sandra Darlene Skinner, M B A
Associate Professor of Human Environmental Sciences B S Ed Framingham State College 1971 M S The Ohio State University 1975 M B A Bowling Green State University 1980 Date of appointment, 1983

Betty Jane Smith, M S W
Associate Professor of Social Work B A Belmont College 1958 M S W University of North Carolina at Chapel Hill 1962 Date of appointment, 1974
**Brenda Simpson Smith, M.S.N**  
Assistant Professor of Nursing  
B.S.N  
Lenoir Rhyne College 1973  
M.S.N  
University of Tennessee 1986  
Date of appointment, 1988

Deanne M. Smith, M.B.A  
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B.S.  
University of North Carolina at Chapel Hill 1986  
B.S.B.A., M.B.A.  
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*Gary C. Smith, Ph.D*  
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B.S.  
Clarion State College 1964  
M.S.  
Ohio University 1967  
Ph.D.  
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Hanson Hoyt Smith, M.B.A  
Assistant Professor of Management  
B.S.B.A., M.B.A.  
Western Carolina University 1973  
1975  
Date of appointment, 1975

*James Eldridge Smythe, M.F.A*  
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B.S.  
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M.F.A.  
Virginia Commonwealth University 1966  
Date of appointment, 1966

Daniel Keith Southern, M.S  
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B.S.  
Alderson Broaddus College 1967  
M.S.  
West Virginia University 1973  
Date of appointment, 1976

**Samuel R. Spangenberg, M.A.**  
Lecturer of Political Science  
B.A., M.A.  
Western Carolina University 1966  
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Date of appointment, 1991

Eldred Spell, Ph.D  
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B.M.  
Furman University 1975  
M.M.  
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Ph.D.  
Michigan State University 1990  
Date of appointment, 1990

*Austin Harvey Spencer, Ph.D*  
Professor of Economics and Finance  
B.A.  
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Ph.D.  
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1972  
Date of appointment, 1980

*Otto Hugh Spilker, P.E.D*  
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B.S. M.S.  
Washington University 1950  
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P.E.D.  
Indiana University 1961  
Date of appointment, 1962

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B.S.E. M.A.  
Northeast Missouri State University 1975  
1980  
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B.S.N.  
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The Ohio State University 1971  
1973  
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*Richard L. Stephens, Ph.D*  
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M.Ed.  
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University of New Mexico 1960  
1961  
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Florida State University 1968  
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B.S.  
University of Southern Maine 1959  
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*Royce Stanley Woosley, Ph D
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1974 Date of appointment, 1973

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ADJUNCT FACULTY

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William L Aldis, M D
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Louis R Alexander, Ph D
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Thomas J Bacon, Ph D
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Olin R Wood, Ed D
Adjunct Professor of Education  Vice President  Instructional Services  Asheville Buncombe Technical Community College  Date of appointment, 1982
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eva Jacqueline Adcock Ph D</td>
<td>Professor of Music</td>
</tr>
<tr>
<td>Raymond Melvin Ainsley Ed D</td>
<td>Professor of Education</td>
</tr>
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<td>J Harold Anderson Ed D</td>
<td>Professor of Education</td>
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<td>Silas Stuart Anderson Ph D</td>
<td>Professor of Psychology</td>
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<td>Jack Wesley Barnett, M A</td>
<td>Professor of Accounting</td>
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<td>Joseph Y Bassett Jr</td>
<td>Professor of Chemistry and Physics</td>
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<td>Ben Haskew Battle Ed D</td>
<td>Professor of Education</td>
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<td>Roger Roland Bisson M A</td>
<td>Professor of French</td>
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<td>Harold Henc Bixler Ph D</td>
<td>Professor of Education</td>
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<td>Taft Benjamin Botner Ed D</td>
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<td>Alvin Guy Burchfield Ed D</td>
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<td>John Judson Chapman Ph D</td>
<td>Professor of Geology</td>
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<td>Quinn H Constantz Ed D</td>
<td><strong>Professor of Health Physical Education and Recreation</strong></td>
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<tr>
<td>Wilma Baker Cosper Ed D</td>
<td><strong>Professor of Home Economics</strong></td>
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<td>Roy Leonard Cox Ed D</td>
<td>Professor of Education</td>
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<td>Richard S Craddock Ed D</td>
<td>Professor of Elementary Education and Reading</td>
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<td>Clinton F Dodson M S</td>
<td>Professor of Biology</td>
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<td>James Gerald Eller Ph D</td>
<td>Professor of Biology</td>
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<td>Paul S Flynn Ed D</td>
<td>Professor of Education</td>
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<td>Nora C Graves Ph D</td>
<td>Professor of English</td>
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<td>William G Haemmle</td>
<td><strong>Professor of Administrative Services</strong></td>
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<tr>
<td>Jim Tudder Hamilton</td>
<td><strong>Professor of Health Physical Education and Recreation</strong></td>
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<tr>
<td>Helen Marion Hartshorn Ed D</td>
<td><strong>Professor of Health Physical Education and Recreation</strong></td>
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<td>George Dewitt Herrng Ph D</td>
<td>Professor of English</td>
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<td>Julian Hirt, M A Ed</td>
<td>Professor of Physics</td>
</tr>
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<td>Theodore L Huguetlet, Ph D</td>
<td>Professor of English</td>
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<td>James W Hunter D B A</td>
<td><strong>Professor of Computer Information Systems</strong></td>
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<tr>
<td>Samuel Aaron Hyatt, Ph D</td>
<td>Professor of Higher Education</td>
</tr>
<tr>
<td>Elizabeth C James M S</td>
<td><strong>Professor of Science Education</strong></td>
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<td>Isaac Perry Kelly Ed D</td>
<td>Professor of Art</td>
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<td>Jay I Kneessler M Lutt</td>
<td>Professor of Management</td>
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<td>Rodney Lycurgus Leftwich Ed D</td>
<td><strong>Professor of Industrial Education and Technology</strong></td>
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<td>Henry Victor Lofquist Jr M A</td>
<td>Professor of Music</td>
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<td>Virgie Mahaffey McIntyre C A S</td>
<td><strong>Professor of Elementary Education</strong></td>
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<td>Mary Hunter Maginnis M P H</td>
<td><strong>Professor of Health Physical Education and Recreation</strong></td>
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<td>Frank Juan S Maturo M A</td>
<td>Professor of Spanish</td>
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<td>Maurice Brush Mornoll Ed D</td>
<td>Professor of Education</td>
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<td>Arnold Monsted Nielsen Ed D</td>
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<tr>
<td>Harriet Parker</td>
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<td>William E Paulk, Jr M A</td>
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</tr>
<tr>
<td>Yvonne Phillips Ph D</td>
<td>Professor of Geography</td>
</tr>
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<td>Arthur Henry Pitch Ed D</td>
<td><strong>Professor of Health Physical Education and Recreation</strong></td>
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<td>Marlan Wrightman Renfro M Ed</td>
<td>Professor of Education</td>
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<tr>
<td>Richard McKinley Renfro Ed D</td>
<td>Professor of Music</td>
</tr>
<tr>
<td>Jerry A Rice Jr Ed D</td>
<td>Professor of Office Administration</td>
</tr>
<tr>
<td>Pauline C Rice Ed D</td>
<td><strong>Professor of Health Physical Education and Recreation</strong></td>
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<tr>
<td>MacDaniel Robunson M A</td>
<td>Professor of Education</td>
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<tr>
<td>Jane Bolton Schulz Ed D</td>
<td>Professor of Marketing</td>
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<td>Patsy Malcolm Scott, M S</td>
<td>Professor of Business Law</td>
</tr>
<tr>
<td>William Ewing Scott, LL M</td>
<td><strong>Professor of History</strong></td>
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<td>Daniel Creighton Sossonmon Ph D</td>
<td>Professor of Marketing</td>
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<td>Keith Thomas Stephens Ph D</td>
<td>Professor of English</td>
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<td>Agnes Stout Ph D</td>
<td>Professor of Religion</td>
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<td>Reuben Joseph Swanson Ph D</td>
<td><strong>Professor of Criminal Justice</strong></td>
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<td>Charles R Taylor</td>
<td><strong>Professor of Mathematics</strong></td>
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<td>John Pelham Thomas Ph D</td>
<td><strong>Professor of Geography and Geology</strong></td>
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<td>Robert Richard Trevarthen Jr M M</td>
<td>Professor of Music</td>
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<td>William Newton Turner Ph D</td>
<td>Professor of Accounting</td>
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<td>Edgar F vom Lehn Ph D</td>
<td><strong>Professor of Elementary Education and Reading</strong></td>
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<td>Eugene William Vosecky Ed D</td>
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<td>Thomas Samuel Warren Ph D</td>
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</tbody>
</table>
Francile Keith Waters  M A Ed
Mary Smallwood Wayte  Ph D
Francis M Webster Jr  Ph D
Martha B White  M A
Samuel Edwin White  Ed S
Bert Lloyd Wiley  M A
Minor Paul Wilson  M A Ed
Hubert Youmans  Ph D
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Professor of Nursing
Professor of Industrial Education and Technology
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