REGULATIONS SUBJECT TO CHANGE

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 office for current information.

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ACADEMIC CALENDAR

Fall Semester 2001

August 1, Wednesday

August 16, Thursday, 3-6 p.m.
August 18, Saturday, 10 a.m.
August 19, Sunday
August 20, Monday 9-4 p.m.
August 20, Monday
August 21-27, Tuesday-Monday
September 1-3, Saturday-Monday
September 4, Tuesday, 8 a.m.
October 6-9, Saturday-Tuesday
October 10, Wednesday, 8 a.m.
October 16, Tuesday
October 17, Wednesday
October 22-November 9, Monday-Friday
November 6, Tuesday
November 21-25, Wednesday, 8 a.m.-Sunday
November 26, Monday 8 a.m.
November 27, Tuesday

December 11, Tuesday
December 12-18, Wednesday-Tuesday
December 14, Friday

December 15, Saturday, 2 p.m.
December 18, Tuesday, 5 p.m.
December 19, Wednesday

Class schedules of all undergraduate students who preregistered and have not paid fees (including delinquent charges) will be cancelled
Registration in Asheville
Residence halls open to only freshmen; orientation begins at 6:00 p.m.
Orientation and registration for new students
Residence halls open to all students
Registration and drop/add in Cullowhee
All classes begin at 5:00 p.m.
Late registration and schedule changes

Labor Day holiday
Classes resume
Fall holiday
Classes resume
Last day to drop a course with a "W"
Last day for students completing programs in May to file degree application in dean’s office
Academic advisement for spring semester and early registration in Cullowhee
(All Monday classes meet)
Thanksgiving holiday

Classes resume
Last day to withdraw from a course for mental health, medical, legal, or administrative reasons
Last day of classes
Final examinations
Class schedules of all undergraduate students who preregistered and have not paid fees (including delinquent charges) will be cancelled
Commencement
Residence Halls close for break
Christmas holiday begins

Spring Semester 2002

January 3, Thursday, 3-6 p.m.
January 6, Sunday, 10 a.m.
January 7, Monday
January 8, Tuesday, 9-4 p.m.
January 9, Wednesday, 8 a.m.
January 9-15, Wednesday-Tuesday
January 21, Monday
March 9-17, Saturday-Sunday
March 18, Monday, 8 a.m.
Registration in Asheville
Residence halls open for all students
Orientation and registration for new students
Registration and drop/add in Cullowhee
All classes begin
Late registration and schedule changes
Martin Luther King Jr. birthday holiday
Spring holiday
Classes resume

1 A late registration fee of $10 will be charged.
March 18, Monday
March 18, Monday

March 18-April 5,
Monday-Friday
March 28-31, Thursday-Sunday
April 1, Monday, 8 a.m.
April 3, Wednesday
April 19, Friday

May 3, Friday
May 4-10, Saturday-Friday
May 10, Friday, 5 p.m.
May 11, Saturday, 2 p.m.

Summer Term 2002
May 16, Thursday, 4-6 p.m.
June 3, Monday, 9 a.m.-4 p.m.
June 3, Monday, 8 a.m.
June 3, Monday-August 9, Friday
June 3, Monday-July 5, Friday
July 8, Monday, 9 a.m.-4 p.m.
July 8, Monday, 8 a.m.
July 8, Monday-August 9, Friday
August 9, Friday, 7 p.m.

Registration in Asheville
Registration in Cullowhee
Classes begin
Summer session (ten-week session)
First summer session (five-week session)
Registration in Cullowhee
Classes begin
Second summer session (five-week session)
Commencement

TELEPHONE NUMBERS

Area Code 828

Academic Advising and Retention Services ............................................ 227-7170
Academic Affairs ................................................................. 227-7495
Admissions, Readmissions .......................................................... 227-7317
Bookstore .................................................................................. 227-7346
Career Services ........................................................................... 227-7133
Employment, Student ................................................................. 227-3888
Fees .......................................................................................... 227-7334
Financial Aid, Loans, Scholarships ............................................... 227-7290
Food Services ............................................................................... 227-7396
Fraternities, Sororities, Clubs ...................................................... 227-7206
General Student Information ....................................................... 227-7234
Housing ..................................................................................... 227-7303
International Students ............................................................... 227-7234
Orientation ................................................................................ 227-7234
Registrar, Student Records, Transcripts ....................................... 227-7232
Colleges
College of Applied Sciences ......................................................... 227-7271
College of Arts and Sciences ........................................................ 227-7646
College of Business .................................................................... 227-7412
College of Education and Allied Professions .................................. 227-7311
Graduate School .......................................................................... 227-7398
Honors College ........................................................................... 227-7383
Veterans Affairs ......................................................................... 227-7234
Western Carolina University is a comprehensive university within The University of North Carolina, offering a broad array of undergraduate and graduate programs in the arts, sciences, and professions. The University serves the people of North Carolina from its residential main campus at Cullowhee, situated between the Blue Ridge and Great Smoky Mountains, and through its resident credit programs in Asheville and Cherokee.

Mission

Teaching and learning constitute the central mission of Western Carolina University. The University seeks to create a community of scholarship in which the activities of its members are consistent with the highest standards of knowledge and practice in their disciplines.

The commitment of the community to service, research, and creative activities complements the central mission and extends the benefits of its scholarship to society. As a major public resource for western North Carolina, the University assists individuals and agencies in the region through the expertise of its faculty, its staff, and its students.

Aspirations

Western Carolina University aspires to provide an environment in which students, faculty, and staff jointly assume responsibility for learning, where the free exchange of ideas, intellectual challenge, and high standards of scholarship prevail.

The University prepares students to become contributing and informed citizens in a global community. By working both independently and collaboratively, graduates of the University have demonstrated the knowledge, skills, and attitudes of an educated person, including:

- the ability to think critically, to communicate effectively, to identify and resolve problems reflectively, and to use information and technology responsibly;
- proficiency in the intellectual and technical skills of a disciplined study in the arts, sciences, or professions;
- an appreciation for the creative and performing arts; and
- a basis for continued personal development and lifelong learning.

To encourage and protect the free and open interchange of ideas, the University strives to provide experiences that foster the development of respect among all its members toward the larger communities of which it is a part. Accordingly, the University encourages its students, faculty, and staff to display the following traits of citizenship:

- behavior characterized by honesty, integrity, and responsibility;
- service to others;
- awareness of and sensitivity to the concerns of diverse people and cultures; and
- commitment to stewardship of the natural and cultural environment.

Location

Western Carolina University is located in the scenic Appalachian mountain ranges at Cullowhee, North Carolina. The university consists of the main campus in Cullowhee and resident credit centers in Asheville and Cherokee. A faculty of about 335 serves a student body of almost 6,700 in resident credit and extension classes.

The Cullowhee campus is in a rural valley between the Blue Ridge and Great Smoky Mountains, fifty-two miles west of Asheville and seven miles south of Sylva on North Carolina Highway 107. The location, at the southern end of Cullowhee valley in the heart of the Tuckaseigee River basin, gives it an unusually attractive setting. The closest commercial airport to the university is located in Asheville, and there is airline service to Asheville. Private taxi service is available.

The central campus consists of about 265 acres, including beautifully wooded areas and modern academic, student residence, recreation, and athletic facilities. The Blue Ridge Parkway, Great Smoky Mountains National Park, Cherokee Indian Reservation, Fontana
Lake. and numerous resort areas offer golfing, skiing, fishing, hunting, hiking, water sports, and other recreational opportunities nearby.

**Governance**

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

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

**Accreditation**

Western Carolina University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097: Telephone number 404-679-4501) to award degrees at the baccalaureate, master's, and education specialist levels. In addition to this institutional accreditation, other special accreditation by appropriate agencies includes these:

- AACSBS-The International Association for Management Education
- American Association of Family and Consumer Sciences
- American Chemical Society
- American Dietetic Association
- American Speech-Language-Hearing Association
- Commission on Accreditation of Allied Health Education Programs in cooperation with the
  Council on Accreditation of the American Health Information Management Association,
  and the Joint Review Committee on Educational Programs for the Emergency Medical Professions
- Council for Accreditation of Counseling and Related Educational Programs
- Council on Social Work Education
- Foundation on Interior Design Education Research (FIDER)
- National Accreditation Council for Environmental Health Science and Protection
- National Accrediting Agency for Clinical Laboratory Sciences
- National Association of Schools of Music
- National Council for Accreditation of Teacher Education
- National Kitchen and Bath Association Endorsement
- National League for Nursing
- North American Society for Sport Management/National Association of Sport and Physical Education
- North Carolina Board of Nursing
- North Carolina Criminal Justice Education and Training Standards Commission
- North Carolina Department of Public Instruction
- Project Management Institute
- Technology Accreditation Commission of the
  Accreditation Board for Engineering and Technology, Inc. (Manufacturing Engineering Technology and Electronics Engineering Technology)

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
A varied academic program is offered by the university's five colleges. Through the Graduate School, the university offers graduate degree programs in numerous major areas leading to the Master of Accountancy, Master of Arts, Master of Arts in Education, Master of Arts in Teaching, Master of Business Administration, Master of Health Sciences, Master of Physical Therapy, Master of Project Management, Master of Public Affairs, Master of School Administration, Master of Science, Master of Science in Nursing, the Education Specialist in Educational Leadership, and the Doctor of Education. 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 of The Record.

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


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

Bachelor of Fine Arts with majors in Art and in Theatre.

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

**The College of Business.** Bachelor of Science in Business Administration with majors in Accounting, Business Administration and Law, Computer Information Systems, Economics, Finance, Management, Marketing, and Bachelor of Science with a major in International Business.
The College of Education and Allied Professions. Bachelor of Science in Education with majors in Communication Disorders, Elementary Education, General Special Education, Middle Grades Education, and Physical Education.

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

Bachelor of Science with majors in Psychology, Sport Management, Recreational Therapy, and Parks and Recreation Management.

The Honors College. Western Carolina University has the only residential honors college of its kind in North Carolina. The Honors College is a community of high-achieving students who participate in honors courses, special research with faculty, and social activities (planned by a student board). Open to all majors at WCU, the college accepts qualified new students (freshmen or transfers) and students already enrolled at WCU. Accepted students are invited to live in one of the two honors residences. Completion of honors work leads to a special diploma from the Honors College. Please see page 74.

The Academic Calendar

Western Carolina University operates on an academic year of two semesters of fifteen 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 fall semester, spring semester, and the second summer session.

Western Carolina University Programs in Asheville

Western Carolina University offers in Asheville, a broad range of instruction at the advanced undergraduate and graduate levels, particularly in the areas of business, education, health professions, human services, public affairs, and technology. The programs of instruction, intended primarily for the adult professional student, are taught late afternoons, evenings and weekends. Western Carolina utilizes the educational facilities and resources of the University of North Carolina at Asheville.

All of the course requirements for master’s degrees in accountancy, business administration, elementary education, health sciences, human resource development, middle grades education, nursing, public affairs, school administration, special education, and supervision are offered. The Education Specialist degree is offered in educational leadership which leads to recommendation for advanced licensure for principals, superintendents, and general supervisors. Two-year college programs are available at the master’s level.

Most of the course requirements for master’s degrees in community counseling, school counseling, English, and technology, and the Doctor of Education degree in educational leadership are also offered in Asheville.

Some of the course requirements for the Master of Arts in Teaching degree in both secondary and special subject teaching, as well as graduate courses in history, mathematics, physical education, and psychology are available.

Through interinstitutional agreements, a program is available to students in Asheville leading to the Bachelor of Science in Nursing degree from Western Carolina University. Students enrolled in this program must complete their junior year of study on the Cullowhee campus and their senior year in Asheville. Registered nurses who are graduates of an Associate Degree or Diploma program can complete, in Asheville, all remaining requirements for the Bachelor’s Degree. Also, through an interinstitutional partnership with Asheville-Buncombe Technical Community College, most of the course requirements for a Bachelor of Science Degree in electronics engineering technology, manufacturing engineering technol-
ogy, and industrial technology are offered. Upper-level course work in Clinical Laboratory Sciences is available for students who hold the Associate Degree in Medical Technology. Also available in Asheville are courses in criminal justice and special education.

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, 120 Karpen Hall, CPO #2160, UNCA, Asheville, North Carolina 28804-3299, or by telephoning 828-251-6642 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 Center offers pre-admissions counseling, academic advisement, financial aid and study skills development services in addition to courses leading toward academic degrees and non-credit courses. The Center serves Cherokee and the surrounding communities and is available to all of the people of the region. The office for the Cherokee Center is located on Acquoni Road. 828-497-7920, across from the Cherokee High School.

**Hunter Library**

The library contains more than 590,000 books and bound periodical volumes, over 100 online databases, 670 CD-ROMs, and one million units of microform. Approximately 3,000 serial subscriptions are received, including regional, national, and international newspapers. The annual addition rate of new materials is more than 26,000 items.

As a selective federal depository, the library holds more than 217,000 government documents and adds important items monthly. Of special interest is the North Carolina Documents Collection which houses publications generated by the state government.

Hunter Library is also a depository for maps published by the United States Geological Survey, the Defense Mapping Agency, and other federal agencies. The map room collection contains more than 117,000 sheet maps, over 600 atlases, and a small reference collection.

The Special Collections unit of Hunter Library maintains manuscripts collections, books, photographs, and other resources documenting the history of Western North Carolina and Southern Appalachia, the history of the Cherokee Indians, literary works and papers of authors residing in or native to Western North Carolina, the behavior of spiders, and the history of Western Carolina University.

As a service for professional education programs, a Curriculum Materials Center (CMC) is maintained that contains the state-adopted textbooks for North Carolina, curriculum guides, children's literature, and manipulatives suitable for classroom use. The CMC also contains the Library Media collection which includes CDs, videotapes, etc.

Hunter Library shares an online system with the libraries at Appalachian State University and the University of North Carolina in Asheville. Faculty, students, and staff may borrow materials from those libraries.

Through NC Live, the library has access to databases in EBSCOHost, UMI Proquest, First Search and SilverPlatter. Other databases include Lexus Nexus from Academic Universe and CARL Uncover.

In addition, the library offers the following CD-ROM bibliographic services: Sport Discus, Biography and Genealogy Master Index, GPO, Oxford English Dictionary, HRAF and the UN index.

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

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

Myron L. Coulter Faculty Center for Excellence in Teaching and Learning. This center provides services designed to assist all faculty on campus in achieving and maintaining excellence in their teaching. Extensive support is available for faculty who wish to use instructional technology in their teaching. The center also sponsors workshops, faculty project teams, and other special events designed to encourage instructors to talk about effective teaching and exchange creative ideas for enriching student learning. Activities and services typically include these:

- Consultation on course development, lesson plans, and applications of instructional technology
- The "faculty sandbox," a place where faculty can develop instructional materials via computer
- Computer classroom orientation and training
- Faculty Forum, a monthly publication featuring provocative opinion pieces by WCU faculty
- Faculty-to-faculty mentoring program
- A lending library of professional literature on college teaching
- Microgrants: travel funds for workshops on teaching
- Instructional Improvement Grants: funds for supplies and services for redesigning courses.

Mountain Resource Center. For over 25 years, the Mountain Resource Center (MRC) has extended the resources and expertise of the university to the "community beyond the campus." The MRC is the University's primary technical assistance and service unit and is a recognized source of information and data on western North Carolina. Through planning, research, data collection and analysis, specialized training, conferences and workshops, the MRC serves as a catalyst for economic development and community capacity building. The Center serves business and industry, local governments, nonprofit agencies, community-based organizations, and other special purpose groups. The staff at MRC is very interested in working with faculty and students to link university resources with these constituencies through the following programs:

- The EDA University Center which offers data research and technical assistance in economic development projects and community capacity building initiatives.
- The Local Government Training Program which offers training in public administration, finance, and law to elected and appointed officials.
- The Nonprofit Development Program which presents a variety of services to nonprofit agency volunteers, leaders, staff, and board members.
- The Western Region Small Business and Technology Development Center which extends training and technical assistance to small business owners and emerging entrepreneurs.
- The Community Partnership Program which links faculty, staff, and students from the university with efforts to address needs in the region.
- Western North Carolina Tomorrow, a citizen leadership and education organization, which addresses issues affecting the future of the mountain region.

International Programs and Services. The office of International Programs and Services (IPS) is the primary focus for information, coordination, and support of international activities for Western Carolina University. Activities are directed at student and faculty exchanges, academic programs, study abroad, research, university linkages, training, technical assistance, and enhancement of the international climate at WCU. IPS also serves as the headquarters of the Center for PVO/University Collaboration in Development, an association of more than thirty universities and private voluntary organizations cooperating in development activities throughout the world. IPS encourages student, faculty, and public inquiries about international programs and activities available through WCU.
Mountain Heritage Center. The center collects, interprets, and disseminates knowledge about the southern Appalachian region and its people. It conducts research and collects and displays artifacts. It interprets the region's natural and cultural heritage through publications, exhibitions, and demonstrations. The center works with public schools in preparing programs for educational enrichment and provides an educational experience for university students through internships. Its essential objective is to promote public awareness of the rich traditions of the mountains.

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

University Writing Center. A staff of graduate assistants and undergraduate peer tutors is available to assist students in developing skills for preparing essays, term papers, creative writing projects, articles for publication, and other writing 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 and revising. By offering the writer workable strategies, the tutors can move the student toward self-sufficiency. In addition to the one-on-one tutorial help, the center regularly offers mini-courses or workshops tailored to specific courses which emphasize writing and specific problems exhibited by student writers. The center is located in Killian Building on the campus in Cullowhee.

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

Developmental Evaluation Center. The Developmental Evaluation Center in the College of Education and Allied Professions is a service agency for the seven counties of Cherokee, Clay, Graham, Haywood, Jackson, Macon, and Swain including the Eastern Band of the Cherokee Indians. Projects are variously funded by the North Carolina Department of Health and Human Services, Division of Early Intervention and Education; the Smoky Mountain Center for Mental Health, Developmental Disabilities, and Substance Abuse Services; community agencies; and Western Carolina University. The center provides developmental evaluation, recommendations for services, treatment, and guidance for newborns, infants, toddlers, preschool children, and their families. Special services are provided or located if necessary, and progress is followed until the child enters a school program. The center affords opportunities for training and research relevant to the university's academic programs in birth through kindergarten teacher licensure; child and family studies; communication disorders; counseling; elementary education; health information management; health services management; nursing; nutrition and dietetics; physical therapy; psychology; recreational therapy; social work; and special education.

Speech and Hearing Center. The Speech and Hearing Center's (SHC) fundamental mission is to provide quality clinical education for undergraduate and graduate students majoring in the discipline of communication disorders. As a critical adjunct, the SHC provides diagnostic, treatment, and consultative services to citizens with known or suspected speech, language, and/or hearing disorders in its catchment area of Western North Carolina. The SHC also strives to serve as a community resource for allied professionals and agencies requiring information about human communication and its disorders. The center derives its strength from a combined academic/clinical orientation that directs the delivery of state-of-
the-art services. The SHC's services are available to persons of all ages. In addition to traditional speech/language/hearing services, the SHC offers the following:

- Newborn Hearing Screening
- Otoacoustic Emission Diagnostic Testing
- Brain Stem Evoked Response Screening for Newborns
- Augmentative Communication Evaluation
- Interdisciplinary Evaluation
- Assistance with Assistive Technology
- Training on various topics related to Communication Disorders

Highlands Biological Station. The Highlands Biological Station is a biological field station where senior scientists and graduate students conduct research on the environments and biota of the Southern Appalachians. Summer courses are offered at the advanced undergraduate and graduate level. Located in Highlands, on a high plateau of the Blue Ridge Mountains south of Cullowhee, the Station is administered by Western Carolina University. An inter-institutional center of the University of North Carolina, it is partially supported by thirty-four colleges and universities in the Southeast.

Mountain Aquaculture Research Center. The center was established within the College of Arts and Sciences at WCU in 1988. Its mandate is to foster biotechnologically based research to support the economic sustainability of the aquaculture industry in Western North Carolina. Research activities of the center are of both a basic and an applied nature. They are conducted using fish rearing facilities located on campus (Natural Sciences Building) and at the Lonesome Valley Aquaculture Research Station, Cashiers, NC, and in collaboration with faculty and students in the Departments of Biology, and of Chemistry and Physics, with the North Carolina Cooperative Extension Service, and with the commercial trout industry. Areas of research interest include culture characteristics of all-female and/or triploid rainbow and brook trout; identification of biochemical measures and DNA markers associated with sex, stress, and disease resistance, and other genetic traits of commercial interest; and monitoring impact and control of fish farm effluents.

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

Office for Rural Education. The Office for Rural Education in the College of Education and Allied Professions helps rural elementary and secondary schools improve the quality of their programs by conducting various types of studies, performing practical classroom research, providing instructional and administrative support services, and assisting in identifying alternative types of funding and instruction. The office also sponsors summer residential programs including youth leadership institutes and a program for the gifted.

Computer Center. The Computer Center is responsible for providing computer information services to the entire campus community. These services provide access to computing resources that students, faculty members, administrators, and staff members need as they learn and apply the products of learning, and contribute to the university's community of scholarship.

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

The central computing facilities managed by the Computer Center consist of two Compaq Alpha 4100 computers, and an Alpha 1000 computer which run the VMS operating system. The Alphas may be accessed by microcomputers or terminals on the campus network or by dial-up modems. On the Alphas, the Computer Center provides access to a wide selection of software for academic computing. Software programming languages include BASIC, C,
FORTRAN, Pascal, COBOL, and MACRO, with Datatrieve as a common report-retrieval language. Administrative computing services on the Alphas include student record, financial, and alumni systems from Systems and Computer Technology Corporation and several applications developed by the Computer Center staff.

A variety of generalized programs for the solution of problems in statistics, numerical analysis, and other areas is available through the center's program library facilities. These include SPSS and SAS. For large research problems and special applications, faculty and students may access the computer resources of the North Carolina Supercomputing Center located in Research Triangle Park, N.C.

The Computer Center also supports the campus network which has a FDDI dual optic fiber ring backbone between buildings. There are over 2,400 microcomputers in offices and lab facilities on campus, and most departments have local area networks which are connected to the campus network. Student residence halls are also on the campus network and have two network ports per room. There are five general student microcomputer lab facilities which are open at least eighty hours per week. The Computer Center supports both Windows and Apple Macintosh operating systems and various microcomputer application programs.

WCU is a node on the North Carolina Information Highway, and the campus network is connected to the statewide NC-REN network which provides WCU’s Internet access. All students receive an account on the central Alpha computers which provides them with access to VMS software, electronic mail, text-based Internet services, and the university library. The WCU World Wide Web server at URL http://www.wcu.edu has general information about WCU. The university is also an active member of EDUCAUSE.

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

Educational Support Services

The Office of Educational Support Services includes the Advising Center and the academic help centers. Services range from "pre-freshman" advisement and registration through academic assistance in a variety of areas. This approach to meeting the academic needs of students is highly personalized and is intended to help students prepare for a lifetime of living and learning.

The Advising Center works with all freshmen in academic advisement, course scheduling, and selection of a major. Upon the declaration of a major, students are advised in their academic department; however, their academic advisor in the Advising Center will continue to work with them in areas of University policy and personal advisement. Additionally, the Advising Center offers career planning and programs for students in academic difficulty.

The academic help centers at the University consist of the Writing Center, the Mathematics Tutoring Lab, the Technology Assistance Center, and the Academic Resource Center. All of their services are available during Fall, Spring, and Summer semesters, and are offered to students without charge.

Continuing Education and Summer School

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

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 early January and a summer school updated listing of the courses and programs offered is available in March of each year.

**The Outreach Center.** The division manages a conference and training center, which is equipped with classrooms, computer labs, and interactive video facilities. The Center serves businesses, agencies, and schools in western North Carolina with continuing professional education workshops and retreats.

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

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

**Distance Learning.** Assistance is provided for all academic and supporting units of the university to extend their resources using a variety of telecommunications technologies. Training and technical support are available to design and deliver academic programs and courses as well as video conferences and meetings to include audiences at distant sites. Distance learning resources include computer conferencing, video conferencing, and correspondence courses.

**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.

**Summer School Programs for Youth.** A number of summer programs are available for pre-college students: the Cullowhee Experience is designed to challenge the gifted and talented in grades 5-10; the Legislators’ School provides leadership training for youth in grades 7-12; and Summer Ventures provides enrichment in the sciences and mathematics. A ballet camp is offered in collaboration with the Atlanta Ballet. In addition, sports camps and recreational programs are offered.

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

**Ramsey Regional Activity Center**

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

Ramsey Center’s multipurpose design and excellent facilities provide for a wide variety of activities ranging from WCU basketball to major concerts, theatre and television productions, workshops, banquets, receptions, and conferences. A ticket office and racquetball courts are also located in the Ramsey Regional Activity Center.
Other Offices and Services

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

University Planning. The Office of University Planning is responsible for coordinating university strategic planning and assessment activities, conducting institutional research, assisting university departments with surveys, and providing university statistical information requested by other agencies. The office is responsible for the publication of the University's Fact Book.

Office of Advancement and External Affairs

The Office of Advancement and External Affairs includes University Advancement, Public Information, Mountain Resource Center, Regional Affairs, and the Mountain Heritage Center.

This office has overall responsibility for institutional services in several program areas including the Mountain Heritage and Mountain Resource Centers. The office acts as liaison with regional, state, and national groups and agencies and coordinates the university's regional economic and workforce development initiatives as well as cultural heritage programs as outreach services to the Western North Carolina region.

Office for University Advancement. University Advancement facilitates and supports collaborative university-wide efforts in fundraising, alumni affairs, institutional marketing and positioning, along with student recruitment. The Development Foundation of Western Carolina University, Inc., founded in 1971 to promote the welfare and educational goals of the university, is housed administratively in Advancement, as are the Offices of Alumni Affairs, Catamount Club (athletics), Loyalty Fund, Planned Giving and Major Gifts. All institutional initiatives involving fundraising from private resources are coordinated through the University Advancement office.

Office of Public Information. 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, radio and television stations and coordinates the planning and design of all university publications, exhibits and displays including those in electronic formats. It is responsible for producing or arranging for production of all university film, video, electronic media, and slide-tape presentations intended for the public.

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

Campus Visit. Prospective students and their parents are invited to visit the campus. A visit provides an opportunity to visualize more fully the meaning of attending the university, especially if classes are in session. An appointment should be made to visit with a member of the admissions staff. Visits should be scheduled between 8 a.m. and 5 p.m., Monday through Friday, and by appointment only on Saturday. For more information, call the Office of Admissions at 828-227-7317 or toll-free 1-877-WCU-4YOU.

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

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

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

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

Advance Partial Payments. Each undergraduate student who is admitted to WCU is required to submit an advance partial tuition payment of $100. This payment will be credited to the charges for the first semester of enrollment. There is also an advance partial housing payment of $100 that must be submitted by all new students who plan to live in a university residence hall. These payments for the fall semester should be submitted to the Controller's Office no later than June 1. The deadline for the spring semester (January) is December 1. For additional information, see the Section on Fees of this catalog.

Computer Admission Requirement for Undergraduates

Western Carolina University strives to ensure that students have access to the highest quality education taking maximum advantage of the changes in information and communications technologies. Beginning with the fall 1998 semester, all newly admitted degree-seeking undergraduate students are required to have an appropriate, networkable computer. This requirement also applies to readmitted students beginning with the fall 2001 semester.

Required Software. Required software is Microsoft Office 2000 Professional Suite for Windows or Microsoft Office 2001 Suite (Macintosh). The student is responsible for purchasing this software. CAUTION: Microsoft Office Small Business Edition and Microsoft Works do not fulfill this software requirement. Also, it is highly recommended that Norton Anti-Virus software be included.

Students Who Already Own a Computer. Most Pentium computers running Windows 95 or 98 or Macintosh computers running system 8.1 or higher should connect to the university's
network with an appropriate network interface card or modem. Network interface cards are available for purchase on-campus. A minimum of 64 MB RAM memory is essential, as is a 4 GB hard drive. All computers should have an 8X or better CD-ROM drive. Systems having less than the minimum specifications noted below for a newly purchased computer may not perform satisfactorily.

**Students Who Are Purchasing a Computer.** Either a Pentium or a PowerMac computer can meet the university's computer admission requirement. The **minimum** configurations for a newly purchased computer for Fall 2001 are as follows:

<table>
<thead>
<tr>
<th>Windows System</th>
<th>Macintosh System</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 MHz processor</td>
<td>350 MHz G3 or higher processor</td>
</tr>
<tr>
<td>64 MB RAM, expandable</td>
<td>64 MB RAM, expandable</td>
</tr>
<tr>
<td>8 GB hard drive</td>
<td>8 GB hard drive</td>
</tr>
<tr>
<td>Color monitor, .28 mm. or lower dot pitch</td>
<td>Color monitor, .28mm or lower dot pitch</td>
</tr>
<tr>
<td>1.44 MB floppy drive</td>
<td>1.44 MB floppy drive</td>
</tr>
<tr>
<td>CD-ROM drive, 12X or higher</td>
<td>CD-ROM drive, 12X or higher</td>
</tr>
<tr>
<td>16-bit sound card (Sound Blaster compatible) Speakers</td>
<td>Built-in 16-bit audio and speakers (standard Macintosh feature)</td>
</tr>
<tr>
<td>3Com Ethernet adapter (on-campus students) or 56 Kbps modem (off-campus students)</td>
<td>Asante or Apple Integrated Ethernet adapter (on-campus students) or 56 Kbps modem (off-campus students)</td>
</tr>
<tr>
<td>104 key keyboard Mouse or pointing device USB or PCI expansion capability</td>
<td>104 key keyboard Mouse or pointing device USB or PCI expansion capability</td>
</tr>
<tr>
<td>Operating System: Windows 98 or ME</td>
<td>Operating System: OS 9</td>
</tr>
</tbody>
</table>

The hardware configurations that are the industry standard in the summer of 2001 will be the **recommended** configurations. Therefore, students are encouraged not to purchase a computer until summer 2001.

**Purchase of Computers.** The University Computer Store offers for sale competitively priced computer packages, preconfigured to WCU's network, including all required software. Students may purchase computers and required software from any vendor; however, machines purchased from the University Computer Store will be preconfigured for easy connection to the university's network and will include all required software.

**“Jump Start” Training for Students.** All new students are required to attend a training program immediately prior to the beginning of classes. This program familiarizes students with navigating the university network as well as using e-mail and other university web services. In addition, all students have the opportunity to learn in their freshman year how to construct their own web page.

**Additional Information.** If you would like additional information about WCU's computer admission requirement, call the WCU Admissions Office (toll-free) at 1-877-WCU4YOU or send e-mail to admis@wcu.edu. The computer requirement is an integral part of the educational experience at Western Carolina University. Failure to comply with this requirement will result in sanctions to the student up to and including expulsion from the university.

**Undergraduate Admission**

The university is open to all qualified students without regard to race, sex, color, national origin, religion, age, sexual orientation, or disability.

**First-Year 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, and high school grade point average. Applicants must be graduates of accredited
high schools. Graduates of unaccredited high schools may satisfy entrance requirements by examination. The university reserves the right to require any conditions deemed necessary. Applications also are considered for admission from prospective students who have achieved high school graduation equivalency by means of Tests of General Education Development (GED).

**Entrance Examinations.** Freshmen applicants must take the Scholastic Aptitude Test (SAT) or the American College Test (ACT). The achievement test in subject-matter fields is not required. For the SAT, 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. 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 for the SAT is 5897 and ACT code is 3172.)

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

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

- 4 units of English
- 2 units of algebra
- 1 unit of geometry or advanced math
- 3 units of science including
  - 1 unit of a life or biological science
  - 1 unit of a physical science
  - 1 unit of an additional lab 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. Effective in the Fall semester of 2004, two units of a language other than English will be required. Effective in the Fall of 2006, one additional unit of mathematics beyond algebra II will be required.

**Admissions Procedure**

**Home-Schooled Applicants.** This policy deals with those students who are applying for admission as freshmen or transfer applicants, who are required to submit secondary school records, and who are participating (or have participated) in a secondary home school program.

Home-schooled students will have their records considered ONLY under the following conditions:

1. The student provides an official transcript of all work completed. This should include course names, descriptions, grades, and the amount of credit awarded.

2. The student provides official score reports of the SAT I or ACT tests.

All home-schooled applicants must meet standards equivalent to those used for applicants from approved secondary schools. This includes indication of the successful completion of work equivalent to high school units listed under Secondary School Preparation. Each applicant will be reviewed individually for academic strengths and weaknesses.

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

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

Priority consideration for admission will be given to applications completed by May 1 for the fall term.

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

The provisional admission program features additional tutoring and small, clustered classes that are designed to ease the transition from high school to college. Some provisionally admitted freshmen may be required to begin their program during the summer term when they will be provided with special assistance.

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

In addition, it is recommended that prospective students complete at least two course units in one foreign language and take one foreign language course unit and one mathematics course unit in the twelfth grade. Effective in the Fall semester of 2004, two units of a language other than English will be required. Effective in the Fall of 2006, one additional unit of mathematics beyond algebra II will be required.

"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 their 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 thirty days prior to the beginning of spring or summer terms.
Transfer students must have earned a minimum grade point average (GPA) of 2.00 (C average) on all work attempted. 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, may 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 twelve semester hours attempted will be required.

The academic records of transfer students will be evaluated by the Office of the Registrar 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 immediate preceding semester (excluding summer terms) must apply for readmission. Applications and all documents supporting the request for readmission must be submitted thirty days prior to the beginning of the term in which further enrollment is planned. Transcripts of work taken at any other colleges during the interim must be submitted. Former students who have attempted course work at another institution since their enrollment at Western also must meet transfer admission requirements.

Former students who are not in good standing at the university also must be approved for readmission by the Committee on Admission, Readmission, and Retention. The committee's decision is based upon the student's entire university record including, but not limited to, the student's academic record. Students should review the academic re-evaluation and two-year rule policies in this catalog before applying.

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

**International Students.** International students are welcome at the university. Students must apply for admission and submit all credentials sufficiently in advance of the first term of enrollment to allow for evaluation 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 English 131 and English 132, which are specifically designed for international students. Further information is available from the Office of Admissions, Graduate School, the International Programs and Services Office, or the international student adviser in the Office for Student Affairs.

**Other Eligible Persons**

**Special Students.** Persons not seeking degrees may apply as special students by completing an application and the nondegree intent form and paying the $35 application fee. Special students are not admitted to any degree program, are not eligible for financial assistance, are not assigned to advisers, and may not live in campus housing. Admissions categories for special students are:

**Non Degree Students.** Persons not seeking degrees but who wish to take courses for personal enrichment or advancement, upon approval, may take up to eighteen semester hours as a non degree student. Academic credentials may be required to validate a student's eligibility for admission. Non degree students who wish to take more than eighteen semester hours will have to meet regular admission criteria.

**Teacher Licensure Students.** Persons who have earned a previous four-year degree and are returning to complete those requirements necessary for teacher licensure and are not pursuing a degree may apply as a teacher licensure student. Persons who plan to meet teacher licensure requirements must provide transcripts of all college work attempted to the Office of Teacher Licensure, 228 Killian, Western Carolina University, Cullowhee, North Carolina 28723.
**Dual Enrollment Students.** Dual enrollment students are those students who plan to take courses at WCU while currently enrolled in a local high school. Applicants must submit a letter of parental consent, a letter of permission from their high school principal or guidance counselor, SAT or ACT scores, and an official high school transcript.

**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 is required.

**Persons over Age 65.** Legal residents of North Carolina aged 65 and over who qualify for admission may enroll in courses on a tuition-free basis if space is available. Information about admission and registration policies and procedures may be obtained from the registrar.

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

**Appeals of Admissions Decisions**

Admissions decisions may be appealed by presenting a written request for reconsideration to the director of admissions. Appeals of decisions which are related to academic preparation or credentials are evaluated by the Admissions, Readmissions, and Retention Committee. Appeals of decisions which are related to criminal, disciplinary, or behavioral factors are forwarded to the vice chancellor for Student Affairs. The request should indicate the reasons for reconsideration and any factors the applicant feels were not given adequate consideration in the admission process. Upon receipt of a written request, the director of admissions will forward the documentation to the appropriate appellate body. Applicants will be notified in writing of the final decision by the Office of Admissions.

**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 Division of Continuing Education and Summer School, Graduate School, or Office of Admissions, and in the *Summer School Catalog/Schedule*, issued each spring.

**Application Falsification**

Students furnishing the university with false, misleading, or incomplete information relating to their application or academic record will be subject to rejection or dismissal.
STUDENT SERVICES

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

Housing

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

The residence halls are open to all students, undergraduate and graduate, to the extent available. Freshmen are required to live on the campus. This requirement may be waived if the student lives with parents, legal guardians, grandparents, or brothers and sisters, or is married. Waivers for other reasons are decided by the director of university housing. Any freshman who wishes to live off campus must submit an "Application to Commute" form, available in the Housing office.

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 computer data ports, single beds, study desks, chairs, dressers, and closets. Students provide their own pillows, bedlinens, towels, lamps, clocks, wastebaskets, and telephones. They also may bring radios, stereos, and televisions as long as outside antennae are not required. Cable television is provided in public areas. Cable television service is available in each room. Other facilities include vending machines, post office boxes, washers and dryers. Local telephone service is included in the housing fee. Long distance telephone options are available for resident students when they arrive on campus, or students may use any current calling card utilizing a 1-800 access code.

Room Reservations and Advance Partial Payment. Any new, transfer, readmitted, or graduate student may reserve a room in the residence halls by submitting the advance partial payment of $100 and a signed application/contract to the Controller's Office. Returning students are to submit a signed contract with $150 prepayment. These payments for the fall semester should be submitted no later than June 1. The deadline for the spring semester (January) is December 1. Checks should be made payable to Western Carolina University. Housing advance payments received after the deadline will be accepted on a space-available basis. Financial aid awards may not be used to cover advance partial payments.

Students may move into the residence halls prior to the August orientation and the beginning of classes, and information on the designated move-in day will be provided. Students who have official university duties may arrive earlier if the Department of University Housing is notified in advance. Unless the Department of University Housing is notified of late arrival, reservations expire at noon on the first day of classes.

Residence Hall Contract. Each student residing in a residence hall signs a contract with the university for the entire 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 under conditions outlined in the contract.

Summer Terms. Students who begin their enrollment in summer terms (May or July) are not required to submit the advance housing payment, but must submit the Residence Hall Application/Contract if they wish to reside in university housing. If, however, you are attending the Academic Success Program, the advance housing payment must be submitted with the contract.
Refund Policy. Students who have paid the advance housing payment and choose not to attend WCU are eligible for a 100 percent refund if notification of cancellation is received prior to June 1 (December 1 for spring). Cancellations received after June 1 and prior to acceptance of residence hall room keys (or the first day of classes) will be subject to a $50 administrative processing fee. Students who move out of the residence halls after acceptance of keys will be eligible for a pro-rated refund, but they will be assessed a $200 breach of contract fee.

Housing for Married and Graduate Students. Robertson Hall is available for married students. It consists of thirty-seven efficiency and five one-bedroom apartments. Madison Hall is available for graduate students. It offers forty-one private rooms with private baths and is an air-conditioned, nonsmoking hall.

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

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

The university extends to students the privilege of visiting with members of the opposite sex in residence-hall rooms. 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. All freshmen are required to live on campus except freshmen from the local area who may apply for a housing waiver to commute from home. Freshmen living in Jackson, Macon, Haywood and Swain counties may apply for a housing waiver to live at home. Students who plan to live off campus make their own living arrangements. It is a good idea to inspect the facilities before making any housing agreement and to obtain a written contract outlining the responsibilities of the renter and landlord. Students who move from the residence halls to off-campus locations must officially move out of their residence hall rooms and are subject to a breach of contract fee. 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 co-curricular 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 programs. The fee also supports the campus radio station, newspaper, literary magazine, yearbook, and student public relations firm.

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 appoints voting members to committees of the Faculty Senate, and the president of SGA is an ex officio member of the University’s Board of Trustees.
A.K. Hinds University Center. The University Center, a major department of the Division of Student Affairs, is the hub of campus activity. It houses the offices of the SGA, Last Minute Productions and University Center staff, a ballroom, several meeting and conference rooms, an art gallery, food service, outdoor equipment rental, television lounge, dance club, commuter lounge, billiard room, fax service, ATM, and a postal vending machine. Through functions such as dinner on the lawn, films, dances, concerts, outdoor trips, and various other events, the center caters to the needs of the entire university community. Many activities are planned and organized by the students themselves through a Last Minute Productions program committee.

Recreation, Fitness, and Sports

The facilities of the Reid Health and Human Performance 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, rugby, soccer, softball, badminton, and table tennis. An indoor fitness center is available with free weights, treadmills, stair climbers, exercise bikes, and state-of-the-art Cybex exercise stations for students, faculty, and staff members.

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

Intramurals. The Intramural Sports Program at Western Carolina University embraces the mission of "building supportive and inclusive communities" for the university community in Cullowhee. The primary mission of the intramural program is to provide a positive use of leisure time. The Intramural Sports Program of Western Carolina University offers a wide variety of recreational activities. Programs include more than forty individual, team, and co-ed activities. The intramural program offers every student an opportunity to participate in sports in a fun and competitive atmosphere. The program promotes a total development of the students life within the academic environment by promoting a well lifestyle. In addition, the intramural sports program has several established sports clubs. These clubs are open to all students regardless of skill level. Students are encouraged to develop new sports clubs as well.

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

Health Services

Routine care is provided by the University Health Services. Outpatient medical care, usually at no additional charge, is provided to students. A comprehensive women's clinic is available to students by appointment. There is a $15 charge for pap smears. Policies concerning outpatient services available to university employees are stated in the Faculty Handbook.

Health Services 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, laboratory personnel, and outpatient facilities are housed in the Graham Health Services Building where consultation hours are posted. For emergency referrals and health service information, the telephone number is 828-227-7640. After clinic hours please dial 911.

A complete medical record is required of all students entering the university. Additional information for updating during the period of actual attendance may be requested. New students are required by North Carolina General Statute 130A-155.1 to have the following
current immunizations: diphtheria-pertussis-tetanus or tetanus-diphtheria, measles (rubeola), rubella, and polio. Evidence of the immunizations must be in the student's records at the time of registration. If this evidence is not present, the student will not be allowed to register. Information concerning the immunization requirements is located on the Health Services Home Page.

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 Services. Health insurance coverage is mandatory for international students. International students must purchase or prove coverage of comprehensive medical insurance before being allowed to register for classes. The insurance must be paid in full in advance and be in effect for the entire academic year. More information is available from the Health Services Center at 828-227-7640.

Mental Health Services

The Counseling and Psychological Services Center and the Testing Center. The center provides free and confidential student services including individual and group counseling and therapy, emergency on-call, consultation, and outreach programming to aid students with educational, personal, or psychological concerns. Testing includes the Graduate Record Examination, The Praxis Series, Medical College Admission Test, Scholastic Aptitude Test, Law School Admission Test, Miller Analogies Test and College Level Examination Program (CLEP). Appointments can be made at 828-227-7469, Scott Building (east wing).

Other Services and Facilities

New Student Orientation. To make the transition to college life easier, Western offers orientation programs for new students and their families. Students attending orientation have a chance to meet other new students, talk to their professional academic adviser, and register for their classes. Orientation is the time for students and family members to become familiar with the academic demands of the university, to meet the faculty, and to learn more about the concerns that accompany campus life. For more information, please call 828-227-7234 or e-mail cameron@wcu.edu.

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

Teacher Placement Service. Placement services are available to all teacher education graduates and alumni who seek employment in the field of education through Career Services. Room 91, McKee Building.

Department of Veterans Affairs Educational Benefits. This institution is approved under the provisions of Title 38 United States Code, Chapter 36. Persons eligible and entitled under provisions of Chapters 30, 31, 32, 34, 35 and Section 901 and 903 and Title 10 United States Code, Chapters 106 and 107 may enroll in programs approved by the North Carolina States Approving Agency. All inquiries concerning V.A. educational benefits should be addressed to the V.A. Certifying Officer, 460 H. F. Robinson, Western Carolina University, Cullowhee, N.C. 28723. You may also call 828-227-7234 or e-mail cameron@wcu.edu.

International Student Services. The International Student Adviser serves as the adviser on immigration matters, advising, programming, and all aspects of university and community life. For more information, please phone 828-227-7234 or e-mail cameron@wcu.edu.

Books and Supplies. The WCU Bookstore offers students a variety of educational materials and supplies, gift items, and miscellaneous articles for personal use. An extensive selection of paperback books is offered for class use and extracurricular reading. All books for graduate students and supplemental texts and course-related materials for undergraduates are sold by the store. Caps and gowns, graduation invitations, and class rings also may be purchased at
the store. The book rental plan operated through the Book Rental Department of the bookstore is explained in the fees section of this catalog. For more information, please call 828-227-7346 or visit our website at www.wcubookstore.wcu.edu.

Wellness Program. The goal of the Wellness Program at Western Carolina University is to create a healthier community in which students, faculty and staff may learn and grow. The Wellness Program provides a variety of activities in order to reach this goal including presentations, a Wellness Resource Library, an exercise incentive challenge, smoking cessation programs, and events centered on national awareness topics such as fitness, nutrition, AIDS, and alcohol. For more information about this program, call 828-227-7640.

Meals. Western Carolina University provides food services for students at three campus locations:

- Dodson Cafeteria (on the lower campus)
- Hinds University Center
- Brown Cafeteria (on the upper campus)

These facilities serve all students who participate in a board plan or purchase á la carte food items. Students living in university residence halls are required to participate in a campus board plan. Participation in a food service plan is optional for commuting students.

The various food service plans offered are described in the fees section of this catalog.

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

Mail Service. Students residing on campus are assigned a residence hall mailbox with their room assignments. All other students may rent a box in the Cullowhee Post Office. U.S. Postal regulations do not permit receipt of mail through general delivery after an initial thirty-day period. A postal commodity machine offering stamps, envelopes, post cards, aero grams, overseas services, and other features is located in the lobby of the University Center.

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

Bank Services. A branch office of the Wachovia Bank and Trust Company is located in Cullowhee. ATM machines installed by Wachovia Bank and BB&T are located in the Hinds University Center. In addition, branch offices of First Union National Bank, First Charter Bank, Carolina Community Bank, Macon Bank, First Citizens Bank and Trust, and the State Employees Credit Union are located in or near Sylva.

Disability Services. Western Carolina University is dedicated to providing the accommodations necessary to help students with disabilities achieve academic success. Academic accommodations are provided through the Office of Student Support Services, 20 McKee Building, 828-227-7127. Section 504/ADA issues are handled through the Office for Student Affairs, 460 H.F. Robinson Administration Building, 828-227-7234.

General Regulations and Safety Policies

The general regulations pertaining to student life at Western Carolina University are published in the Student Handbook. A copy of the Student Handbook is available at the Office for Student Affairs (460 H.F.R. Administration Building, 828-227-7234). Student rules and regulations are the responsibility of the Office for Student Affairs. Other regulations deemed necessary for the welfare of the members of the university community are the responsibility of the appropriate unit of the university, subject to administrative approval.

All members of the university community have the responsibility of conducting themselves in a manner befitting the university environment. The university can fulfill one of its major obligations to its students by providing opportunities for the development of self-discipline, respect for others, and concern for one's personal conduct.
While on the campus, students are subject to the rules of the university, whether or not classes are in session. Students who exhibit unseemly conduct or destructive behavior or who impinge on the rights of other individuals, as these terms are defined in the Code of Student Conduct found in the Student Handbook, are subject to disciplinary action by the university.

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

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

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

Drunkenness and other abuse of alcoholic beverages are grounds for disciplinary action. Although possession and consumption of alcohol by students are 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 are options to be determined by the occupants of each room, within the framework of student regulations and North Carolina law. Public display or consumption of alcoholic beverages is not permitted. All students should be familiar with the policies in the Student Handbook and the laws of North Carolina concerning alcoholic beverages.

**Policy on Illegal Drugs**

**I. Purpose**

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

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

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

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

I. 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 to both 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, North Carolina General Statutes 90-90, or Schedule II, General Statutes 90-90 (including, but not limited to, heroin, mescaline, lysergic acid diethylamide, opium, cocaine, amphetamine, and 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, 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

* 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.
in Schedule I, N.C. General Statutes 90-89, or Schedule II, N.C. General Statutes 90-90, the minimum penalty shall be suspension from enrollment or from employment for a period of at least one semester or its equivalent.

B. For a first offense involving the illegal possession of any controlled substance identified in Schedules III through VI, 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.

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.

Annual Safety Report

WCU publishes an annual safety report to comply with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (formerly the Campus Security Act).

The report can be accessed at: http://www.wcu.edu/studentd/safety.

Hard copies of the report are available upon request at the office of the Vice Chancellor for Student Affairs, 460 H.F. Robinson Administration Building, 227-7234, or the University Police, Fieldhouse, 227-7301.

Policy on Computer Abuse

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

Law Enforcement

The University Police Department is responsible for providing law enforcement, criminal investigation, and security services on campus. University Police Department officers are certified by the N.C. Attorney General's Office and meet all standards set by the Attorney General for law enforcement officers in this state.

All crimes that occur on the campus of WCU should be reported to the University Police Department. Emergencies should be reported by dialing 911; non-emergencies may be reported by dialing 227-7301. Reports may also be filed by visiting the University Police Department, located on the second floor of the Jordan-Phillips Field House, or by contacting an officer on patrol. Officers may also be summoned by activating any of the emergency blue-light callboxes, which are placed at various locations throughout campus.

Information regarding crime statistics and crime prevention programs is available in the University Police Department. This same information is made available on-line at: http://police.wcu.edu.

Traffic and Parking. The University Police Department is responsible for the administration of WCU's parking system, vehicle registration, and traffic and parking regulations enforcement. State statutes provide that campus traffic and parking regulations have the force of law, and violators may be subject to the penalties such law prescribes.

Everyone parking a vehicle on campus must register that vehicle with the University Police Traffic Office and display a current decal or visitor's permit on that vehicle. Parking and traffic regulations literature is made available in the Traffic Office, located on the second floor of the Jordan-Phillips Field House. These same regulations are made available on-line at: http://police.wcu.edu.

The Traffic and Security Committee, composed of students, faculty, and staff, functions as an appellate board for faculty and staff members wishing to contest parking citations which they have received. Appeals concerning student violations are heard by a similar SGA appellate committee. Citation appeal forms are available in the Traffic Office. For more information, contact the University Police and Traffic Services Office at 227-7301.
Western Carolina University holds its charges to the minimum commensurate with the provision of needed services. The following schedule of fees, due and payable by the payment deadline for each semester, will be effective beginning with the fall semester of the 2001-2002 academic year. The university reserves the right to alter any charges without prior notice upon direction from appropriate governing authorities.

Application for admission must be accompanied by a $35, nonrefundable application processing fee, in the form of a check or money order made payable to Western Carolina University unless exempted by one of the following conditions:

1. The applicant has been enrolled previously for courses at WCU.
2. The applicant has filed an application for admission within the previous two calendar years. Applicants who meet one of these conditions are not required to pay the $35 application fee.

Payment of Fees. All charges are due and payable on or before the payment deadline for each semester. Payment by check, in the exact amount of the bill, is recommended. In accordance with state policy, a processing fee of $25 is assessed for returned checks.

Payment may also be made by credit card (VISA, MasterCard, or Discover), by contacting PhoneCharge, Inc. at 1-877-237-9410. Please be mindful that a convenience fee is charged for use of the credit card payment option.

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 account payments will result in cancellation of registration.

Tuition and Housing Advance Partial Payments

Tuition and Fees. New students who are admitted to Western Carolina University are required to remit a $100 advance partial payment of tuition and fees. By doing so, the student reserves a place in the entering class and establishes eligibility to preregister for courses to be taken in the first term of enrollment. This amount is due and payable upon notification of acceptance for admission and must be paid prior to participation in course preregistration. The payment is fully creditable to charges for the first semester of enrollment. If a student’s plan to enroll at Western Carolina University changes, the advance payment is fully refundable if the university receives written notice of cancellation on or before June 1 preceding the scheduled fall enrollment (December 1 for Spring enrollment). If notice of cancellation is not given or is received after these deadlines, the advance payment will be refunded, subject to a $50 administrative fee.

Students who preregister for fall semester will be required to remit full payment of tuition and fees by August 1 in order to retain their preregistered class schedules. The spring semester payment deadline for preregistered students varies and is listed on the spring schedule of classes, as well as on the tuition registration statement mailed to students. After the published deadline, schedules of undergraduate students who have preregistered and not paid will be cancelled. The class seats made available thereby will be offered to these and all other students who register in the regular registration and drop-add periods at the beginning of the semester.

Housing. New students who intend to live on the University campus must remit a $100 advance partial payment of housing charges. (Freshmen students are required to live on campus, except freshmen from the local area who may apply for a housing waiver to commute from home. Freshmen living in Jackson, Macon, Haywood, and Swain Counties may apply for a Housing Waiver to live at home.) This amount is due and payable upon notification of admission and is fully creditable to housing charges for the first semester of enrollment. Returning students are required to remit a $150 advance partial payment of housing charges
by June 1 of each year to secure residence hall spaces for the next academic year. This payment is fully creditable to first semester housing charges.

If either a new or returning student’s plan to enroll at WCU changes, the advance payment is fully refundable if the university receives written notice of cancellation on or before June 1 (December 1 for spring semester) preceding the scheduled enrollment. If notice of cancellation is not provided or is received after June 1 (December 1 for spring semester), the advance payment will be refunded minus a $50 administrative charge. After June 1, requests and advance payments for campus housing will be accepted on a space-available basis.

Late Registration. A student who registers and/or pays fees after the last regular registration date will be charged a late registration fee of $10. See the Academic Calendar.

Fees Per Semester

I. Full-time Student

<table>
<thead>
<tr>
<th></th>
<th>North Carolina</th>
<th>Out-of-state</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
<td>$511.00</td>
<td>$4,146.00</td>
</tr>
<tr>
<td><strong>Required Fees</strong></td>
<td>$585.40</td>
<td>$585.40</td>
</tr>
<tr>
<td><strong>Book Rental Fee</strong></td>
<td>$76.00</td>
<td>$76.00</td>
</tr>
<tr>
<td><strong>Room (standard double)</strong></td>
<td>$890.00</td>
<td>$890.00</td>
</tr>
<tr>
<td>Board (declining balance)</td>
<td>$822.00</td>
<td>$822.00</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td><strong>$2,884.40</strong></td>
<td><strong>$6,519.40</strong></td>
</tr>
</tbody>
</table>

* Required fees include: Health Services $88.50; Recreational and Cultural, $88.75; Athletics, $168.75; Athletic Facilities, $43; University Center, $141.00; Documents Fee, $3.15; Education and Technology Fee, $52.25.

** Textbooks are available to graduate students by purchase only.

***With standard residence hall - double room rate.
Western Carolina University is a publicly supported institution. Tuition payments and other required fees meet only a part of the total cost of the education of students enrolled. On the average, for each full-time student enrolled in an institution of the University of North Carolina, the State of North Carolina appropriated $8,735.00 per year in public funds to support the educational programs offered.

II. Part-time Student

(Undergraduate, enrolled for eleven hours or less; Graduate, enrolled for eight hours or less.)

<table>
<thead>
<tr>
<th>Hours Enrolled</th>
<th>Undergraduate</th>
<th>Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In-State</td>
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</tr>
<tr>
<td>1</td>
<td>$179.75</td>
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<tr>
<td>2</td>
<td>231.50</td>
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<tr>
<td>3</td>
<td>283.25</td>
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<tr>
<td>10</td>
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<td>3,627.50</td>
</tr>
<tr>
<td>11</td>
<td>952.25</td>
<td>3,679.25</td>
</tr>
</tbody>
</table>

For each 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 UNC-Acredit courses in which a student enrolls carry an additional cost per credit hour regardless of the fees paid for credit from Western Carolina University.

IV. Other Fees

Undergraduate admission application fee (one time only) $35
Graduation fee $30
Late registration fee $10
Cap, gown, and hood Obtained through WCU Bookstore
CLEP, GRE, NTE, etc. Fee set by Educational Testing Service

Meal Plan

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

*75-All you care to eat meals per semester plus $725.00 declining balance $1,115
*18-All you care to eat meals per week plus $85.00 declining balance 1.005
*12-All you care to eat meals per week plus $165.00 declining balance 940

*The all you care to eat meal plan combines an "All You Care To Eat" program located at Brown Cafeteria and a declining balance account that can be used at the other food-service locations on campus. Plus Plan includes a block of 75 meals that can be used any time during the semester, within normal facilities operating hours.
*7-All you care to eat meals per week plus $325.00 declining balance

**Declining Balance

The deadline to change between board plans is the last day of course drop/add for each semester.

Participation in any of the above-described board plans is optional for commuting students. Commuting students have the additional option of a declining balance plan in an amount of $50.00 or more, per semester.

Unused balances that remain in declining balance meal plan accounts at the end of each academic term are not refundable. However, unused balances up to a maximum of $50 will be automatically rolled over from fall to spring semester for continuing students only. Unused balances cannot be rolled over to the next fall semester.

Refund Policies

Academic Year Tuition and Fees. During a fall or spring semester, a full-time or part-time student who withdraws from the university on or before the first day of classes will be refunded 100 percent of tuition and fees. The refund schedule for students who withdraw after the first day of classes is available from the Controller's Office.

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.

The following are exceptions to the above-stated refund policies: The advance partial payment of tuition and fees required of new students is subject to a $50 administrative charge if the student withdraws before the first day of classes, but after June 1 for fall semester and December 1 for spring semester. The advance partial payment required of new students to reserve campus housing is likewise subject to a $50 administrative charge if withdrawal occurs after the dates indicated. Continuing students must make payment in full prior to August 1 to reserve campus housing. This payment is similarly subject to a $50 administrative charge if withdrawal occurs after August 1, but before the first day of classes.

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

*The all you care to eat meal plan combines an “All You Care To Eat” program located at Brown Cafeteria and a declining balance account that can be used at the other food-service locations on campus. Plus Plan includes a block of 75 meals that can be used any time during the semester, within normal facilities operating hours.

**The Declining Balance Meal Plan are dining programs wherein students pay an advance deposit at the beginning of each semester, and purchases are deducted throughout the term. During the semester, any student with a declining balance account may make additional prepayments in minimum increments of $50.
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.** The refund schedule for room and board charges is available from the Controller's Office.

**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) a medical condition that compels withdrawal upon recommendation of the Director of the Student Health Service, or (4) a mental health condition that compels withdrawal upon recommendation of the Director of Counseling and Psychological Services. The prorations and regulations governing refunds in hardship cases are available from the Office for Administration and Finance. The Vice Chancellor for Student Affairs 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.

**Tuition Surcharge Policy**

Pursuant to actions of the North Carolina General Assembly and policy adopted by The Board of Governors of the University of North Carolina, a 25 percent tuition surcharge applies to students who take more than 140 semester hours and more than eight regular semesters (i.e., fall and spring) to complete a baccalaureate degree. This policy is effective for all new undergraduates entering on and after fall semester 1994.

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

Advanced Placement (AP), College Level Examination Program (CLEP), WCU Advanced Placement, and courses including extension courses earned through summer session(s) at any University of North Carolina institution are excluded from the 140-hour calculation. Students pursuing a second baccalaureate degree will have the surcharge applied to hours that exceed 110 percent of the hours determined to be required to earn the degree. In all cases the surcharge applies only to tuition and not fees.

The official policy may be obtained from the Office of Enrollment Management (HFR 560) during regular office hours.

**Book Rental Plan**

The WCU Bookstore Book Rental Department offers textbook rentals to on-campus undergraduate students for courses numbered 100-499. Students pay a flat rental fee of $76.00 each semester and are entitled to the primary textbook adopted in each course for which they are registered. This plan does not provide notebooks, workbooks, paperbacks, manuals, or supplemental books and materials; these are available for purchase at the bookstore. Students may purchase textbooks at replacement cost (list price less 20 percent), but this does not exempt them from paying the rental fee. Further information about the Book Rental Plan can be found in the Faculty Handbook or at: http://wcubookstore.wcu.edu/

Rental books must be returned no later than five working days after the last day of final examinations for each term, including summer school. Students not complying with this time limit will be fined $20 if the books are returned within the first two weeks of the next regular term, including summer school. Students who do not return their books within the first two weeks of the next regular term will be required to purchase the books at replacement cost (list price less 20 percent). Upon return of rental texts, the student must purchase any book that has been grossly mistreated.
Graduate students must purchase all required texts, regardless of course level. Textbooks for courses numbered 500 and above are available at the bookstore. Textbooks for courses numbered below 500 are available for purchase at the Book Rental Department.

**Residence Status for Tuition Purposes**

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

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

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

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

**Effect of Marriage.** Marriage alone does not prevent a person from becoming or continuing to be a resident for tuition purposes, nor does marriage in any circumstance ensure that a person will become or continue to be a resident for tuition purposes. Marriage and the legal residence of one's spouse are, however, relevant information in determining residentiary intent. Furthermore, if both 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. Students from the military may prove retention or establishment of residence by reference, as in other cases, to residentiary acts accompanied by residentiary intent.

In addition, a separate North Carolina statute affords tuition rate benefits to certain military personnel and their dependents even though not qualifying for the in-state tuition rate by reason of twelve months legal residence in North Carolina. Members of the armed services, while stationed in and concurrently living in North Carolina, may be charged a tuition rate lower than the out-of-state tuition rate to the extent that the total of entitlements for applicable tuition costs available from the federal government, plus certain amounts based under a statutory formula upon the in-state tuition rate, is a sum less than the out-of-state tuition rate for the pertinent enrollment. A dependent relative of a service member stationed in North Carolina is eligible to be charged the in-state tuition rate while the dependent relative is living in North Carolina with the service member and if the dependent relative has met any requirement of the Selective Service System applicable to the dependent relative. These tuition benefits may be enjoyed only if the applicable requirements for admission have been met; these benefits alone do not provide the basis for receiving those derivative benefits under the provisions of the residence classification statute reviewed elsewhere in this summary.
Grace Period. If a person (1) has been a bona fide legal resident of the required duration, (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 end 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 eighteen 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 twelve-month period, that person, if he or she continues to maintain the reacquired domicile into re-enrollment at an institution of higher education, may re-enroll at the in-state tuition rate without having to meet the usual twelve-month durational requirement. However, any one person may receive the benefit of the provision only once.

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

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

Waiver of Tuition. Legal residents of North Carolina who have attained the age of sixty-five or certain family of deceased or disabled emergency workers 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 Office of the Registrar.
Financial Aid

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

Entering students interested in applying for financial aid must complete the Free Application for Federal Student Aid (FAFSA). Students who have previously completed the FAFSA should receive a renewal application from the federal processor prior to January 1. This must be submitted as soon as possible after January 1 of each year the student will attend; Western Carolina University should be listed as a recipient of the information. The FAFSA may be obtained from the WCU Financial Aid Office, from a high school guidance counselor, or can be accessed on-line at http://www.fafsa.ed.gov. The application should be completed as accurately as possible and conform with income tax information, since discrepancies require resubmission of information and consequent delay.

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

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

- all undergraduate students must complete at least 70 percent of all hours attempted at Western Carolina University
- students who have attempted between six (6) and twenty-three (23) hours must have a cumulative GPA of at least 1.5
- students who have attempted between twenty-four (24) and fifty-nine (59) hours must have a cumulative GPA of at least 1.8
- students who have attempted sixty (60) hours or more must have a cumulative GPA of at least 2.0

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

Students are expected to complete their undergraduate degree in eight semesters (four years). As required by federal regulations, no student receiving financial assistance can exceed 150 percent (12 semesters) of the normal time (8 semesters) to complete an undergraduate degree. This allows for double majors and change of majors.

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

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

Federal Perkins Loan. These loans are awarded to undergraduate and graduate students who demonstrate financial need and meet the federal eligibility requirements. The maximum amount an eligible student may borrow is $4,000 per year as an undergraduate and $6,000 per year as a graduate. The maximum aggregate loan amount for an eligible undergraduate student is $20,000. A graduate student may borrow a maximum of $40,000 minus the amount borrowed as an undergraduate. Interest and repayment start nine months after the student leaves school or drops below half-time status. The interest rate is 5 percent.

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

Federal Direct Unsubsidized Stafford/Ford Loan. The Federal Direct Unsubsidized Stafford/Ford Loan Program provides loans to students after their demonstrated need has been met. The maximum amounts to borrow are based on the grade level of the students. There is a 3 percent combined origination and insurance fee. The interest is the same as the subsidized Stafford except that the interest is capped at 8.25 percent and the borrower is responsible for accrued interest.

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

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

The amount of the loan is $4,000 annually to undergraduates during their second, third, and fourth years of study, and $5,000 for graduate students for two years. Recipients agree to cancel their obligation by securing full-time employment in designated shortage areas in health or in secondary or post-secondary school systems. For more information, contact the North Carolina Student Loan Program for Health, Science, and Mathematics, P.O. Box 20549, Raleigh, N.C. 27619-0549, telephone 919-549-8614.

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 up to $6,500 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, 3739 National Drive, Suite 210, Raleigh, N.C. 27612, telephone 919-781-6527.

North Carolina Prospective Teacher Scholarship-Loans. Financial assistance to full-time students in teacher education programs is available at $2,500 per academic year and may be continued for four years of undergraduate study if all prerequisites are met. Priority is given to students preparing for teaching in fields where the need is greatest. Scholarship loans are to be repaid in cash at 6 percent interest or by teaching in the public schools of North Carolina one year for each year of the loan.
Nurse Education Scholarship Loan Program. This scholarship loan program is based upon financial need to work in combination with existing financial resources. A scholarship loan may be repaid through service in the state following completion of the nursing program or repayment in cash plus 10 percent interest from the date of disbursement. A completed Free Application for Federal Student Aid (FAFSA) is required for consideration. For additional information, contact the Financial Aid Office.

The Nurse Scholars' Program. Established by the North Carolina General Assembly, this competitive, merit-based scholarship loan program is available to North Carolina students of exceptional academic achievement and leadership potential who desire to enter the nursing profession. Applications for a NSP award may be made by individuals who have been admitted to a participating nurse-education program and who meet the minimum 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 healthcare agency in North Carolina.

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., P.O. Box 8169, Columbus, GA 31908-8169.

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

Grants

Federal Pell Grants. Eligibility for assistance under the Pell Program is based on financial need as determined by a formula of the U.S. Department of Education which is applied uniformly to all applicants. Awards range from $400 to $3,125 per academic year depending upon the cost of attendance. Students who complete the Free Application for Federal Student Aid (FAFSA) are considered for Federal Pell Grant eligibility.

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

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

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

**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, these grants are awarded to NC residents who are eligible for Pell Grants. The value of the grant is determined by the Pell Grant eligibility.

**Special Assistance**

**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 eighteen through twenty-six 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.

**Employment**

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

**Graduate Assistantships.** Stipends of $5,000 to $7,000, depending upon the assignment involved, are awarded to qualified graduate students through the Graduate School. These stipends require twenty hours of work per week.

**Resident Assistants.** Positions as assistants in the residence halls are available to qualified undergraduate students. Contact the Department of University Housing.

**Other Part-time Work Opportunities.** A part-time job service for students is operated through the Career Services/Cooperative Education Office. All non work-study job opportunities on the campus and some off-campus jobs are posted with Career Services/Cooperative Education. Students should check the posted vacancies outside of Room 230-237 Killian Annex.
SCHOLARSHIPS

Applying for Scholarships

The Office of Academic Affairs manages academic scholarship awards supported by funds from donors. Academic affairs cooperates with the financial aid and admissions offices and representatives from the colleges in screening applicants and making awards through the University Scholarship Committee. A scholarship application is not required to be considered. Students will be considered for all scholarships for which they may be eligible. For information about eligibility for academic scholarships, contact the Office of Academic Affairs.

There are a variety of departmental and athletic scholarship awards, as well as scholarships managed by the admissions office for entering freshmen. For more information about freshmen scholarships, contact the admissions office. Students who have declared a major should inquire in their academic department office or their college dean’s office about scholarships in their discipline. For information about athletic scholarships, contact the athletics office.

Scholarship Listing

Western Carolina University is proud to recognize many of the generous contributors who have funded endowed scholarships for deserving students. The following is not intended to be a complete listing of all available scholarships.

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. Contact the dean of the College of Business.

Mr. and Mrs. John W. Ashe Scholarship. This fund was established by a bequest from the estate of Beulah Ashe Ensley in honor and memory of her parents. Awards are for students from Jackson or Haywood counties who demonstrate financial need.

Biology Department Scholarship Fund. 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.

The Thomas W. Bird Scholarship Fund. Established by a bequest from the estate of Thomas W. Bird, this fund supports needy and deserving students.

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 and Middle Grades Education.

James L. Breece Scholarship. Established by James L. Breece, this scholarship fund provides support for a student who has graduated from a Western North Carolina high school, majoring in chemistry and is academically and financially in need of a scholarship. Dr. James Breece grew up in Waynesville, NC and was a 1967 graduate of WCU. Contact the head of the Chemistry Department.

Albert Dudley Brewer Scholarships. These endowed scholarships, supported by the Adelaide Louise Brewer Fund, provide assistance for students with impaired hearing. Contact Student Affairs.
Frank 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. Contact the head of the Chemistry department.

Gracie 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. Contact Student Affairs.

The Mandy Buchanan and Daniel Ledford Music Scholarship Fund. The families of Mandy Buchanan and Daniel Ledford established this memorial fund to provide scholarship support for students from Haywood County majoring in music and who participate in Western’s marching band. Contact the head of the Music Department.

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

Louise Mason Caldwell Scholarship Fund. This endowed scholarship program provides financial support for Cherokee Indians to attend WCU. Contact the director of the WCU Cherokee Center.

Patrick Lee Carmody Scholarship Fund. This memorial scholarship fund provides financial support for qualified students majoring in communication (radio-television). The awards are based on academic achievement, civic and social activity, and contributions to student programs and activities. Contact the Department of Communication and Theatre Arts.

The Channing C. Carpenter Scholarship Fund. This endowment was established by friends and family of Dr. Chan Carpenter, who joined the WCU faculty in 1967. Dr. Carpenter taught constitutional law and American government sub-specialties such as the presidency. He was selected SGA’s “Man of the Year” in 1969. Contact the head of the Department of Political Science.

The Christopher Thomas Cash/Sigma Nu Fraternity Scholarship Fund. This memorial fund was established to make awards to brothers of Kappa Phi Chapter at Western Carolina University. Contact the Sigma Nu fraternity scholarship committee.

Katherine Causey Award. This award provides financial support for women who graduated from high schools in Alamance, Guilford, and Randolph Counties or counties west of the above-named counties in North Carolina and who are majoring in biology or English.

The Ronnie Childress Memorial Scholarship Fund. This fund, established to support scholarships in baseball, honors the memory of Ronnie Childress. Ronnie, a 1970 WCU graduate, worked as a radio announcer at the family-owned radio station in Sylva. Contact the Director of Athletics.

Wilma Cosper Scholarship. This scholarship program provides financial support for deserving students who have declared a major in one of the academic programs in the Human Environmental Sciences. Contact the dean of the College of Applied Sciences.

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 undergraduate mathematics majors and English majors. Contact the appropriate department.

Cullowhee School District Award. This award program provides funds for 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. Contact the school counselor at Smoky Mountain High School.

Andrea Culpepper Scholarship Fund. This memorial scholarship fund provides financial support for students enrolled in the nursing program. Contact the dean of the College of Applied Sciences.
Homer Ray Davis Scholarship. This scholarship was established to honor Homer Ray Davis, the son of Sue Morgan Davis of Jackson County. It provides scholarship assistance on a need basis to students from Jackson, Swain, and Macon Counties. Contact Financial Aid.

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. Contact Financial Aid.

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

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

Winston A. 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.

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 on the basis of financial need.

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, as well as financial need.

Xena Bristol Forsyth Scholarships. This endowment honors Mrs. Xena Bristol Forsyth and her son, William Frank Forsyth. It supports awards for juniors and seniors in the College of Business. Preference is given to students from Cherokee, Clay, and Graham Counties. Contact the dean of the College of Business.

Gerri Wright Garrett Scholarship. This scholarship is designed to assist female students from Swain, Graham, and Macon counties attending Western Carolina University. Preference will be shown to non-traditional students from Swain County who demonstrate financial need.

The Sam Gibson Scholarship. This renewable scholarship, established by Charles Yandell, a close personal friend of Sam Gibson, provides support for education students attending Western Carolina University. Selection is based on the combination of financial need, academic qualifications, and overall achievements.

Linda Jones Hudson Gilbert Scholarship. This scholarship assists students from Western North Carolina in obtaining a degree in education. Selection will be based on demonstrated financial need. Preference will be shown to first generation college students.

Glaxo Women in Science Scholarship. The Glaxo Women in Science Scholars endowed scholarship is established to provide scholarships for full-time women students at WCU. The purpose of the scholarship fund is to recognize outstanding scholarship, to provide an incentive for women science students to enter the science professions, and to provide students with a woman scientist mentor at Glaxo Inc. Contact the dean of the College of Arts and Sciences.

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.

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

**The Lola Harwood Fund.** This scholarship, established in memory of John Henry and Mary Ida Harwood of Swain County, provides scholarships to Western North Carolina students who excel academically.

**The L. Milton Hauser Scholarship Fund.** This memorial fund, established by the family of L. Milton Hauser, provides awards to students majoring in elementary or middle grades education.

**Haywood County Western Alumni Scholarships.** These endowed scholarships are awarded to Pisgah and Tuscola High School graduates as recommended by high school counselors on the basis of 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.

**Billy and Ruth Hice Scholarships.** Established in memory of Billy and Ruth Hice, this scholarship fund supports students who are pursuing a degree in history. Contact the head of the History Department.

**The History Department Academic Excellence.** 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. Contact the History Department.

**Dillard Hooper Scholarship.** Established through a bequest from the estate of Louise Hooper, this scholarship will be awarded annually on the basis of financial need to two students from Jackson County who attend Western Carolina University.

**Hospitality Management Scholarship Fund.** Established by W.D. McKee Sr., this scholarship will provide financial support for students majoring in hospitality management. Contact the dean of the College of Applied Sciences.

**The H. T. and Glen Weaver Hunter Memorial Scholarship Fund.** This scholarship fund was established through the generosity of Miss Marthlou Hunter, a 1930 graduate of Western. Ms. Hunter's father, Hiram T. Hunter, was President of Western from 1920 until his death in 1946. Preference is given to entering freshmen on the basis of financial need, and renewals depend upon satisfactory progress.

**Marshall Hyde Scholarships.** These scholarships are awarded to undergraduate students from Graham County who have expressed an interest in horticulture, forestry, or environmental improvement. Contact the Graham County school superintendent.

**Wallace Hyde Scholarship Fund.** Established by Mrs. Hyde in honor of her husband, this scholarship fund provides financial support for students majoring in hospitality management. Contact the dean of the College of Applied Sciences.

**Independent Insurance Agents of North Carolina Scholarship Fund.** This fund was established by Tim Laney, President of the IIANC, to provide scholarships for students who are pursuing careers in insurance, risk management, or general business. Contact the dean of the College of Business.

**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 on the basis of financial need and other criteria.

**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. Contact the Dean of Research and Graduate Studies.
Jay I. Kneedler Scholarships. Awards are made to juniors and seniors in the College of Business based on overall social, civic, and academic achievement and potential. Contact the dean of the College of Business.

The Linda Reep Lankford Scholarship Fund. This scholarship, established by Jesse R. Lankford in memory of his wife, Linda Reep Lankford, provides assistance to students majoring in elementary or middle grades education. Contact the dean of the College of Education and Allied Professions.

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

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

The John Donivan Hales/Jessie Lindsay Scholarship Fund. This fund was established by Jessie Lindsay Hales in memory of her husband, John Donivan Hales. Awards are made to students who are residents of Swain County and who have expressed an intention to major in elementary education. Contact the dean of the College of Education and Allied Professions.

The "Little E.J." Scholarship Fund. This fund, established by Blanton and E. J. Whitmire in honor of the son of E.J. and Genevieve Whitmire, provides support for students majoring in special education. Contact the head of the Department of Human Services.

James Lee Love Scholarship. 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. Contact Office of Financial Aid.

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

The Macon Bank Scholarship Fund. The purpose of this fund is to provide support for outstanding students from the North Carolina counties served directly by Macon Savings Bank, currently Macon, Cherokee, Clay, Henderson, Jackson, and Transylvania.

The Dean Martin Business Fellowship Fund. This scholarship was established in memory of Dr. M. Dean Martin, a professor in business. Business students majoring in management, marketing, or graduate business programs receive awards based upon academic achievement, promise for continued scholarly accomplishment, and leadership potential. Contact the dean of the College of Business.

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

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 GPA in their major. Contact the Dean of the College of Arts and Sciences.

The Reg and Judy Moody Scholarship Fund. This scholarship fund was established by Reg and Judy Moody of Sylva, N.C., and supports scholarships for students in men’s basketball, women’s basketball, and football. Contact the Director of Athletics.

The Morrill Family Memorial Fund. This memorial fund provides financial support for graduate students conducting research related to improving teaching. Contact the dean of the College of Education and Allied Professions.

The Mountaineer/Josephus Daniels Scholarship Award. Established by the Josephus Daniels Charitable Foundation for students from the primary circulation area of The...
Enterprise 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.

**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. Contact the fraternity for information.

**The Helga Nielsen Scholarship Fund.** This fund was established through the generosity of Helga Nielsen to provide scholarship assistance for Cherokee Indian students. Contact the director of the WCU Cherokee Center.

**Josefina Niggli Scholarships.** These endowed scholarships honoring Josefina Niggli, distinguished playwright and teacher, are made to students majoring in theatre arts with established records of achievement in the WCU theatre. Contact the head of the Department of Communication and Theatre Art.

**The 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. Contact high school counselor.

**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. Contact the fraternity scholarship committee.

**The Lawrence and Geneva Ramsey Scholarship Fund.** This scholarship was established in 1998 by Mylie Ramsey in memory of Lawrence and Geneva Ramsey. It provides support for Jackson County students who are rising WCU juniors.

**The Ramsey Family Scholarship Fund.** This scholarship established in memory of Dr. Donald Ramsey, a Sylva optometrist, provides a full tuition award to a junior majoring in one of the preprofessional health sciences. Contact the head of the Biology Department.
Bronce and Betty Ray Scholarships. These scholarships for students majoring in business 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. Contact the dean of the College of Business.

The Leone Hyde Ray Scholarship. The family of Leone Hyde Ray established this endowed fund to provide scholarship support for education students attending WCU. This scholarship is awarded each year to a graduating high school senior from Graham County who has an interest in becoming a classroom teacher.

The Freda Rayburn Scholarship for Women in Business. The purpose of this scholarship fund is to support women who have leadership potential in business and provide opportunities for them to participate in education for careers in business. Scholarships are available at the undergraduate and graduate levels. Contact the dean of the College of Business.

The Ed and Bertha Henson Reed Scholarship. This fund was established in memory of Mrs. Edwards' parents, Ed and Bertha Henson Reed, who were lifelong residents of Jackson County, NC. The purpose of the fund is to provide support for WCU students who are from Jackson County, who are majoring in education or business, and have proven themselves to be financially and academically deserving.

Frances and Ted Reese Scholarship. This endowment, established by Frances and Ted Reese, supports scholarships for business students majoring in marketing. Recipients must be residents of North Carolina and rising seniors. Contact the Dean of the College of Business.

Paul A. Reid and Paul A. Reid Surry County 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 high school guidance counselors.

Richard and Marian Renfro Scholarships. These endowed high school scholarships, which honor professors emeriti Richard and Marian Renfro, are awarded to students majoring in music education. Contact the head of the Music Department.

The John and Elisabeth Rice Scholarship Fund. Students who have declared a major and are working in a biology program of study are eligible for consideration. Contact the head of the Biology Department.

The Bobby S. and Anne B. Robinson Scholarship Fund. Established through the generosity of the I.L. Long Construction Company in Winston-Salem, this scholarship is to provide support for incoming freshmen from McDowell County or Swain County High Schools who demonstrate financial need.

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. Contact the fraternity scholarship committee.

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

The Daniel Saddler Scholarship. Established by the family of Daniel L. Saddler, this scholarship provides support for graduate level counseling students. Dan Saddler was a professor and counselor trainer at WCU from 1972 until 1989 with extraordinary insight to encourage students to reach their full potential as counselors and individuals. Contact the dean of the College of Education and Allied Professions.

The Sandlin-Morris Scholarship. This endowed fund provides scholarship support for students from Haywood, Jackson or Swain counties. Selection will be based on a combination of their financial need, academic qualifications, and overall achievements.
The Laura and Phillip Sherrill Scholarship. The purpose of this fund is to provide a scholarship to a rising senior who is a resident of North Carolina in the College of Business. Contact the dean of the College of Business.

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

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

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

The Otto Spilker Scholarship. Established by friends and colleagues of Otto Spilker, this scholarship endowment assists students in their efforts to obtain a degree from WCU. Contact the head of the department of Health and Human Performance.

State Employees’ Association of North Carolina Scholarships. State employees, their spouses, and their children who have financial need and demonstrate academic potential are eligible for these awards. Contact Financial Aid.

The Lorraine Kronholm Stone Scholarship Fund. This memorial fund was established to provide scholarship support for “non-traditional” students majoring in studio art or art education. Contact the head of the Art Department.

The Stephanie Ann Stow Scholarship Fund. The family of Stephanie Ann Stow has established this memorial fund to provide scholarships to support education students who are doing their student teaching. Preference is given to students from Asheville High School or other Buncombe County high schools. Contact the Dean of the College of Education and Allied Professions.

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. Contact Financial Aid.

The Elizabeth Thompson Scholarship. Established by Mrs. Elizabeth Thompson, this renewable scholarship is designated to assist education majors in attending WCU.

Duncan Tye Scholarship. This scholarship was established by friends and family in memory of Duncan Tye, who taught for twenty years in the College of Business at WCU. It provides awards to rising seniors majoring in economics or finance. Contact the dean of the College of Business.

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. Contact the dean of the College of Education and Allied Professions.

Roy A. Taylor Scholarships. Scholarships are awarded to students in speech or public relations. Contact the head of the Department of Communication and Theatre Arts.

The Varner Scholarship. This endowment fund supports scholarships for high school students from Swain County.
Mary and Charles Wayte Graduate Scholarship Fund. This fund was established by the Waytes to support scholarships for graduate students in business and education. Contact the dean of the College of Education and Allied Professions or the dean of the College of Business.

The Curtis L. and Brenda C. Wellmon Scholarship Fund. This scholarship, established by the Wellmons, provides support to graduates of East Burke High School in Icard, North Carolina, who demonstrate financial need.

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. Contact the dean of the College of Education and Allied Professions.
ACADEMIC REGULATIONS

Each annual Undergraduate Catalog issue of The Record becomes effective at the opening of the fall term. All first year students with less than thirty semester hours will be required to complete the new liberal studies program beginning Fall 2001. To receive a degree, a student must satisfactorily complete 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 of return. 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 one, two, or three 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 twelve hours. A normal load is sixteen hours; however, a student may take up to nineteen hours. Any schedule that exceeds nineteen hours constitutes an overload and must be approved by the student’s adviser and the appropriate administrators as indicated on the request and approval form. Twelve hours is the maximum that may be earned in
experiential courses during a semester. Course load regulations for the summer session are published in the Summer School Schedule of Classes.

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

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

Grading and Quality Point System*

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Quality Points per Semester Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.67</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.33</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Good</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.67</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>2.33</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
<td>2.0</td>
</tr>
<tr>
<td>C-</td>
<td>1.67</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>1.33</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Poor</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>.67</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Failure</td>
<td>0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade</th>
<th>Interpretation</th>
<th>Quality Points per Semester Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>--</td>
</tr>
<tr>
<td>IP</td>
<td>In Progress</td>
<td>--</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
<td>--</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory</td>
<td>--</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawal</td>
<td>--</td>
</tr>
<tr>
<td>AU</td>
<td>Audit</td>
<td>--</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit</td>
<td>--</td>
</tr>
</tbody>
</table>

The grades of A, A-, B+, B, B-, C+, C, C-, D+, D, D- and F indicate gradations in quality from Excellent to Failure. Please note that a C- grade is less than satisfactory and may not meet particular program and/or course requirements.

*See Graduate Catalog for the graduate level grading system.

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

Incomplete. The instructor may grant a student an I grade for work not completed if there is a reasonable prospect that the student can pass the course by making up the work missed, if the incompletion is unavoidable and not caused by the student's negligence. All incomplete grades must be removed and a grade of A, A-, B+, B, B-, C+, C, C-, D+, D, 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 and is pending until the work is completed.

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

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

**Final Grade Changes.** When a grade other than incomplete is reported officially by an instructor at the end of a term, the grade is recorded and can be changed only if an error was made in estimating or reporting it. The instructor will, with the approval of the department head, report the error in writing to the dean with a recommendation about the action to be taken. Only the instructor can change the grade in a course except as provided in the incomplete grade policy. Any request by a student for a change in a final grade must be submitted to the instructor within thirty-five 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 adviser 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 prior to the withdrawal deadline for posting. Course withdrawals do not count toward the twelve hours required for full-time enrollment.

After one-half of a term, but prior to the fourteenth week of the semester (or before the last two class days of summer sessions), a "W" will be assigned only for written verifiable mental health, medical, legal, or administrative reasons. In order to obtain a "W", the student must first consult with the course instructor, who may elect to support or withhold support for the student’s request. If the instructor supports in writing the student’s request, the student must receive written verifiable support from Western Carolina University Health Services staff, Counseling and Psychological Services staff, an official court of law, or a college dean, as appropriate. If a withdrawal is granted by the course instructor, the head of the department offering the course, and the student’s adviser, the withdrawal form must be submitted to the registrar no later than the last day of the thirteenth week of the semester. No Ws will be assigned after the last day of the thirteenth week of a semester, or during the last two class days of a summer session. In extenuating circumstances, or if the student’s request is not approved by any university party involved, the student can appeal through the Academic Appeal Procedure within thirty days after the final grade report.

**UNIVERSITY WITHDRAWAL.** To withdraw from the university (i.e. drop all courses), a student must complete a withdrawal form from the Office for Student Affairs. 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 Affairs at 828-227-7234.

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, university police department, academic departments, and health services.

**Academic Appeals Procedure.** Students who feel they have been treated unjustly by an instructor in any matter pertaining to their academic work should follow in order the academic appeals procedure: 1) appeal verbally to the instructor; 2) appeal verbally to the instructor's department head; 3) appeal verbally to the dean of the instructor's college; 4) appeal in writing to the Academic Problems Committee, as outlined below. Any request by a student for a change in a final grade must be submitted to the instructor within thirty-five days after the end of final exams.

The Academic Problems Committee is comprised of five members, including two students chosen by the SGA and three faculty members. In order to appeal to the Academic Problems Committee, students should write a one- or two-page letter to the faculty chair of the committee succinctly stating the grounds for the appeal and the requested action to resolve the appealed issue. After deliberation, the committee will make recommendations to the vice chancellor for academic affairs. The vice chancellor's decision may be appealed to the chancellor. Additional 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, a community of scholarship, is also a community of honor. Faculty, staff, administrators, and students work together to achieve the highest standards of honesty and integrity. Academic dishonesty is a serious offense at WCU because it threatens the quality of scholarship and defrauds those who depend on knowledge and integrity. Academic dishonesty includes the following:

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

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

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

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

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

**Family Educational Rights and Privacy Act**

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:
1. The right to inspect and review the student's education records within 45 days of the day the University receives a request for access. Students should submit to the Registrar's Office written requests that identify the record(s) they wish to inspect. The Registrar's Office will make arrangements for access and notify the student of the time and place where the records may be inspected.

2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students who believe that their education records contain information that is inaccurate or misleading, or is otherwise in violation of their privacy or other rights, may discuss their problems informally with the University Non-Discrimination and Compliance Officer. If the decision is in agreement with the students' requests, the appropriate records will be amended. If not, the students will be notified within a reasonable period of time that the records will not be amended, and they will be informed by the Non-Discrimination and Compliance Officer of their right to a formal hearing.

3. The right to consent to disclosures of personally-identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

4. The right to file a complaint with the Family Policy Compliance Office, US Department of Education, 400 Maryland Avenue, SW, Washington, D.C. 20202-4605 concerning alleged failures by Western Carolina University to comply with the requirements of FERPA.

Western Carolina University hereby designates the following categories of student information as public or "Directory Information." Such information may be disclosed by the institution for any purpose, at its discretion.

- Student name
- Dates of attendance
- Local and home address
- Degrees
- Telephone numbers
- Honors and awards received
- Classification
- The most recent previous educational agency or institution attended by the student
- Parent/guardian
- Participation in officially recognized activities and sports
- County
- Major field of study
- Weight and height of members of athletic teams
- Photograph
- Electronic mail (E-mail) address.

Students may withhold directory information by notifying the Registrar in writing within five working days from the first day of classes for the fall term, or by the first day of classes for subsequent terms. Students are warned, however, prior to making a decision to withhold personally-identifiable data, that undesirable consequences frequently occur, such as names of students on the Dean's List are not published, names are not listed in commencement bulletins, and requests from prospective employers are denied. Forms are available in the Registrar's Office, 201 HFR Administration Building, and on the web at http://registrar.wcu.edu/forms.

Western Carolina University's complete FERPA policy may be obtained from the Registrar's Office, 201 HFR Administration Building.

**Students' Education Records At General Administration of the University of North Carolina: Annual Notification of Rights**

Certain personally-identifiable information about students ("education records") may be maintained at the University of North Carolina General Administration, which serves the Board of Governors of the University system. This student information may be the same as, or derivative of, information maintained by a constituent institution of the University, or it may be additional information. Whatever their origins, education records maintained at General Administration are subject to the federal Family Educational Rights and Privacy Act of 1974 (FERPA).
FERPA provides that a student may inspect his or her education records. If the student finds the records to be inaccurate, misleading, or otherwise in violation of the students' privacy rights, the student may request amendment to the record. FERPA also provides that a student's personally-identifiable information may not be released to someone else unless (1) the student has given a proper consent for disclosure or (2) provisions of FERPA or federal regulations issued pursuant to FERPA permit the information to be released without the student's consent.

A student may file with the U.S. Department of Education a complaint concerning failure of General Administration or an institution to comply with FERPA.

The policies of the University of North Carolina General Administration concerning FERPA may be inspected in the office at each constituent institution designated to maintain the FERPA policies of the institution. Policies of General Administration may also be accessed in the Office of Secretary of the University of North Carolina, General Administration, 910 Raleigh Road, Chapel Hill, NC.

Further details about FERPA and FERPA procedures at General Administration are to be found in the referenced policies. Questions about the policies may be directed to Legal Section, Office of the President, The University of North Carolina, General Administration, Annex Building, 910 Raleigh Road, Chapel Hill, NC (mailing address P.O. Box 2688, Chapel Hill, NC 27515-2688; tel: (919) 962-4588).

**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 2.0 must be maintained. A student who is not in good academic standing is not eligible for graduation.

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

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

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

**Quality Hours.** “Quality hours” refers to the total credit-hour value of all Western Carolina University courses in which a student has regularly enrolled and earned grades from A to F.

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

**Academic Honors**

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

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

**Graduation with Honors.** To graduate *summa cum laude*, a student must have earned a minimum GPA of 3.90 on quality hours attempted at Western Carolina University for the degree; to graduate *magna cum laude*, a GPA of 3.70; and to graduate *cum laude*, a GPA of 3.50. In case of transfer hours from other institutions, a student must earn the appropriate GPA in all courses taken at Western Carolina University in order to graduate with honors.
To be designated University Scholars, students must have enrolled as freshmen and completed their entire undergraduate careers at Western Carolina University with a GPA of 3.90. Students who meet this requirement, except for courses taken with permission at other institutions as transients, are eligible for designation as University Scholars.

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

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

**Retention Policy for Undergraduates**

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

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

If a student’s cumulative grade point average falls below 2.0, the student is not in good academic standing, and a notice to that effect will appear on all grade reports and registration cards. These students should consult with their academic adviser and take advantage of university support services. Students who are in academic difficulty will receive one of the following messages on their grade reports: Academic Probation or Academic Suspension. These messages are determined by the following:

<table>
<thead>
<tr>
<th>Quality Hours and Transfer Hours:</th>
<th>A student is on Academic Probation when GPA is:</th>
<th>A student is on Academic Suspension when GPA is:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-17</td>
<td>1.999-1.000</td>
<td>.999 or lower</td>
</tr>
<tr>
<td>18-21</td>
<td>1.999-1.208</td>
<td>1.207 or lower</td>
</tr>
<tr>
<td>22-25</td>
<td>1.999-1.361</td>
<td>1.360 or lower</td>
</tr>
<tr>
<td>26-30</td>
<td>1.999-1.496</td>
<td>1.495 or lower</td>
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<tr>
<td>31-35</td>
<td>1.999-1.592</td>
<td>1.591 or lower</td>
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<tr>
<td>36-40</td>
<td>1.999-1.664</td>
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<tr>
<td>41-45</td>
<td>1.999-1.720</td>
<td>1.719 or lower</td>
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<tr>
<td>46-50</td>
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<tr>
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<tr>
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<td>1.999-1.985</td>
<td>1.984 or lower</td>
</tr>
<tr>
<td>111 or more</td>
<td>---</td>
<td>1.999 or lower</td>
</tr>
</tbody>
</table>

In addition to the above determination based on grade point average, a student will be placed on academic suspension if he/she has been on academic probation for two consecutive regular terms.
First semester transfer students will be academically suspended if they fail to achieve a minimum 1.0 GPA by the end of their first semester at WCU. After the first semester, transfer students must meet the grade point average minimums listed above which correspond with the total of their transfer hours and WCU quality hours.

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

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

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

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

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

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

**Grade Replacement Policy for Undergraduates**

Students are allowed to replace grades on five different courses taken at Western Carolina University. The following guidelines apply:

1. Only five courses (regardless of credit hour value) may be selected for grade replacement. The grade replacement policy may only be applied one time for a particular course. For courses repeated beyond the limit for grade replacement, the Repeat Policy applies.

2. When a student elects to use a course for grade replacement, the student must file the Grade Replacement Form with the Registrar’s Office. This form indicates which course is to be excluded from GPA computation under this policy. Once a decision is made, it is irrevocable.

3. Although the original grade will not be used in determining the cumulative GPA of the student, the original grade will remain on the student’s academic transcript.

4. Any course elected for grade replacement must be taken and repeated at Western Carolina University.

Since all courses do not carry the same hours of credit, students are urged to consult their adviser in making decisions regarding use of the Grade Replacement Policy. It is the responsibility of the student to follow the grade replacement guidelines and to detect and report any needed adjustments to the student’s academic record.
Repeat Course Policy for Undergraduates

Students may repeat any number of courses taken for credit. A student may choose to replace a grade according to the Grade Replacement Policy. Once a student has exhausted the guidelines set in the Grade Replacement Policy, all quality hours and grades earned each time a course is taken will be used in computing the student's GPA. Unless specifically stated in the catalog description, credit for any course may be applied only once toward the required hours for graduation.

Academic Re-evaluation Policy

To be eligible to elect an academic re-evaluation, a student must have a cumulative GPA below 2.0 and must have made a GPA of 2.30 or better on twelve or more hours of work for each of two successive semesters, one of which may be summer school. At least eighteen 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 C- or less prior to these two semesters will count toward the 120, 122, or 128 hours required for a degree. Such courses may be used to waive general education requirements but not to fulfill major requirements.

The student's GPA for retention and graduation will be computed only on work taken during and after the two semesters on which re-evaluation is based. However, the number of hours previously passed with a grade of C (2.0) 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 2.0 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 C- or less 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 (2.0) 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 Office of Admissions 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 the Registrar. 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; the degree program may not exceed 45 semester hours of CLEP
credit. Credit toward a degree is not awarded for Continuing Education Units or for General Education Development tests (GED).

**Transfer of Credit.** An evaluation of credits offered in transfer is completed after admission and after all official records are received directly from each institution previously attended. The applicability of transferred credits toward degree requirements is determined by the Registrar’s Office and the department head of the student’s major. In some cases, due to accreditation standards, validation of a course by successful completion of more advanced work in the same discipline or by examination may be required.

Only work passed with a grade of C (2.0) or better may be transferred. Grades from other grading systems that are equivalent to a C or better may be transferred. Except for consortium agreements, no credit will be allowed toward graduation or toward fulfillment of major requirements for a course passed with a C- or less at another institution. Credit will not be awarded for courses determined to be below the collegiate level at Western Carolina University, nor from an institution not accredited by a nationally-recognized regional accrediting agency. Undergraduate credit will not be awarded for graduate-level courses.

A Comprehensive Articulation Agreement (CAA) has been developed by the North Carolina Community College (NCCC) system and the University of North Carolina (UNC) General Administration providing for the transferability of a student’s first two years of collegiate work to a senior UNC institution. This agreement provides that a student who enrolls at a NCCC institution fall, 1997 or later, and completes his/her home institution’s 44 semester hours of general education requirements with a grade of C or better in each course, is guaranteed that those hours will be applied toward a baccalaureate degree at any UNC institution. These 44 hours must be used to satisfy the receiving institution’s general education requirements. In addition, the CAA also guarantees that upon completion of the Associate of Arts or Associate of Science degree, 20-21 hours of pre major work will be transferred and applied toward the student’s baccalaureate degree at a UNC institution provided that the student remains within his/her major.

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. A minimum of 25 percent of semester hours applied toward a bachelor’s degree must be earned through regular enrollment in Western Carolina University junior-senior level courses, including a minimum of twelve 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 thirty 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 on a transient basis for transfer to WCU must secure the appropriate department head’s and registrar’s approval before enrollment at the other institution. Transient Approval Forms are available in the Registrar’s Office and the departments. Students must be in good standing and eligible to re-enroll at Western Carolina University to secure transient permission. Course work taken at an institution which has a consortium agreement with Western Carolina University will be given credit on the same basis as course work taken at WCU.

Grades made in transferred courses are not considered in computing the GPA at Western Carolina University, but transferred hours are added to earned hours and will affect the student’s overall academic standing. A student may not expect to have the repeat course policy applied on the basis of courses completed at other institutions. Currently enrolled and former students (those not enrolled for one or more of the immediately preceding semesters, excluding summer terms) who attempt courses at other institutions must earn a cumulative 2.0 GPA and submit official transcripts of all work attempted to the Office of Admissions in order to be eligible to return to WCU.
Transfer Students With Two Or More Years Away From Their Previous Academic Institution

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

Generally, transfer students must have earned a minimum grade point average (GPA) of 2.0 (C average) on all work attempted. Applicants who are ineligible to return to the last institution attended for any reason may be ineligible for admission to Western Carolina University. However, transfer students who have not attended any institution for a period of two or more years prior to the intended semester of enrollment will be considered for admission subject to review of specific circumstances by the director of admissions.

Students transferring from any unaccredited institution, if admitted, may 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 semester hours attempted will be required.

The academic records of transfer students will be evaluated by the Office of the Registrar and the department head/program director of the student's major. University policies on transfer of undergraduate credit are explained in the section of this catalog on academic regulations.

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 on the final grade report. All undergraduates who receive two CC grades prior to the semester in which they complete 110 hours at Western Carolina University are so notified by the registrar and are required to pass English 300 before they will be eligible for graduation. This course must be taken within two semesters of receiving the second CC and must be passed with a grade of C (2.0) or better.

Oral Competence-Condition Marks. A student whose oral communication skills in any course fails to meet acceptable standards will be assigned an Oral Competence-Condition (OCC) mark by the instructor on the final grade report. All undergraduates who receive two OCC grades prior to the semester in which they complete 110 hours at Western Carolina University are so notified by the registrar and are required to pass CMHC 300 before they will be eligible for graduation. This course must be taken within two semesters of receiving the second OCC and must be passed with a grade of C (2.0) or better.

Placement in Freshman English. Students with Advanced Placement credit or high school credit for English 101 and/or English 102 will be given credit for these courses. All other students will be placed in English 101. Members of the Honors College will be placed in English 101-H, and enrollment in these honors sections will be reserved for members of the Honors College. Students placed into English 101 or 101-H must complete the six-hour Freshman English sequence of English 101 or 101-H, followed by English 102 or 102-H.

Students wishing to be placed out of English 101, English 101-H, English 102, or English 102-H may take a rigorous examination administered by the department. Students making a score of 6 on a 6-point scale will receive credit (but no grade) for the appropriate course.

Mathematics Placement Policy. A mathematics placement test is administered to students who wish to take Math 140 (Introductory Calculus), Math 145 (Trigonometry), Math 146 (Algebra and Analytic Geometry), or Math 153 (Calculus I) without first completing the prerequisite course(s). Students planning to major in Mathematics, Computer Science, Chemistry, Biology, Physics, Electronics Engineering Technology, Industrial Technology, and Manufacturing Engineering Technology should plan to take this placement test. Students who have a strong mathematics background and would like to take the highest level course for which they are qualified should take the placement test. The placement test will be
administered to entering Freshmen in the fall when classes begin, and to continuing students during early registration when they plan to register for one of the courses listed above in the next semester. Transfer students may take the test by arrangement with the Director of Mathematics Placement. The test does not generate course credit for course requirements that are waived as a result of placement. A scientific or graphics calculator is recommended for taking the test. Students who have transferable credit for college-equivalent courses can be placed into courses for which these transferred courses satisfy prerequisites. Any student may take the liberal studies (general education) math course, Math 101 (Mathematical Concepts). There is no placement requirement for this course, but it does not satisfy the prerequisites for College Algebra or any other algebra-based course.

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

**Placement in Modern Foreign Languages.** Students will be placed at the appropriate level in a language based on the number of years of high school and/or college-level language study. Any student placed in the second or higher course in French, German, or Spanish who passes that course with a grade of C (2.0) or better will receive three or six hours of credit for the courses bypassed. This may include the general education course 101. Additional information can be obtained from the department or from a CAP Center adviser.

**Chemistry.** Freshmen with above-average ability in chemistry are encouraged to take a chemistry placement examination. Satisfactory performance allows a student credit in either CHEM 132 or 140. Additional tests may be taken for a maximum of eight hours of credit.

**Advanced Placement Program.** Students who earn a grade of three or above on the College Board advanced placement courses are eligible to receive credit based upon the evaluations of the appropriate department heads. Currently, credit may be earned in American and European history, art history, biology, calculus, chemistry, computer science, economics, English, French language and literature, German literature, Latin, music, physics, political science, psychology, and Spanish language and literature.

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

**Noncredit Courses.** Credit earned in ENGL 100 and MATH 100 will not count toward the 120 or 128 hours required for graduation.

**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 (4.0) or B (3.0) will receive credit. Those making C (2.0) 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 (2.0) or higher.
The fee for scheduling a course on a credit by examination basis is $15. No fee will be assessed if the examination is being used to validate transfer credits or when the student is enrolled full-time during a fall or spring semester.

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

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

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

**Credit for Experiential Learning**

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

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

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

**Credit for Veterans of Military Service.** To receive credit for military service, a veteran must have served at least twelve months in continuous active duty in a branch of military service and present the registrar an official copy of the Department of Defense (DD) 214. Once evaluated, the student will receive 6 hours of free electives and 1 hour for PE activity course if the degree program requires a minimum of 128 credit hours. Service school courses will be evaluated on a course-by-course basis using the American Council of Education recommendations for evaluation of military credits. This award of credit does not alter other university requirements, or major, minor, concentration, or general education requirements for a degree.
Class Attendance Policy

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

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

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

Group Absences and Field Trips. Field trips and scheduled absences should be planned to disrupt the school calendar as little as possible. Only in rare instances should they be made during the last two weeks of the semester or when early registration is in progress. Classes missed because of field trips or service to or for the university must be processed in advance by the instructor and each participating student. The faculty member in charge must obtain permission for the trip from the dean at least 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 Examination Schedules

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

Many end-of-course evaluations are written final exams. In order to reduce conflicts and final evaluation overloads for both students and faculty, a final examination schedule is developed by the registrar for the entire university. All final exams are to be administered at their designated times and places during final exam week. Change in time of an examination for an entire class for any reason must be approved by the head of the department, by the dean of the college, the vice chancellor for academic affairs, and the chancellor.

No student is required to take more than two final exams on any one day. Any student who has three final exams scheduled on one day has the option of taking all three or submitting to the professors a written request for rescheduling. However, a request to have an examination rescheduled must be made in writing at least five days before the examination is scheduled.

To reschedule, the following steps should be taken:
1. The student should request in writing a change in date from the instructors of the courses that present the conflict.
2. If the conflict is not resolved, the student should work with his/her academic adviser to have one of the exams rescheduled.

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

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

Graduation and Certification

Application for Graduation. After earning ninety (90) hours, to be certified as a candidate for graduation, the student must file an application form with the dean. (In order to obtain the application form, the student must first present a paid receipt to the dean’s office that the $30 graduation fee has been paid to the University cashier.) The dean will send the completed application to the student’s department head. In consultation with the student’s adviser, the department head will determine all requirements remaining to be completed. At the appropriate time, the application will be updated, signed by the department head, and returned to the dean who will certify it and forward it to the Registrar.

Undergraduate students should begin this procedure immediately after ninety (90) hours have been earned. Specific deadlines for filing degree applications are listed 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 college. Procedures for teacher certification are found in the College of Education and Allied Professions section of the catalog.

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/her designee.
DEGREE PROGRAMS AND REQUIREMENTS

The bachelor's degree programs require the completion of a minimum of 120 semester hours to a maximum of 128 semester hours, including: (1) liberal studies program; (2) a major as prescribed by each of the departments; (3) elective courses; and, (4) in cases where majors are less than forty-six hours, a minor, second major, concentration, or other approved program as specified by the appropriate school and department. Unless specifically provided for in the catalog description, credit for any course may be applied only once toward the required hours for graduation.

Majors. A major consists of a group of prescribed and elective courses (27-64 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 thirty to forty 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 (sixteen to twenty-four 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 twenty-four hour course of study in an academic discipline required of education students enrolled in a B.S.Ed. program in communication disorders, elementary, middle grades, physical education, or special education (general). The focus areas available are the following: anthropology, art, biology, communication training and development, economics, English, French, geography, geology, German, health promotion and wellness, history, mathematics, natural science, philosophy, political science, psychology, sociology, Spanish, and theatre.

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 120-128 hours required for any bachelor's degree and do not lead to the award of a second degree. Students interested in earning a second bachelor's degree must meet the additional requirements stated below for second degrees.

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

General Electives. Unless a program has been specifically exempted, each degree plan includes a minimum of twelve 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 liberal studies 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. Liberal studies requirements may be waived or altered only with the approval of the director of liberal studies. Collegewide requirements may be waived or altered only with the approval of the dean of the college. Waivers of, and substitutions in, university-wide regulations and requirements must be approved by the Office for Academic Affairs. All requests must be submitted to the registrar on the Waiver and Substitutions Form.

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

Students Undecided About a Major. Students are not required to declare a major at the time they enter the university. By exercising some care it is possible, without encountering any difficulty, to earn credit toward a degree for several semesters before selecting a major. However, students are encouraged to select a specific major no later than the semester after they have achieved sophomore standing. Through the Advising 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 thirty additional semester hours with a 2.0 GPA must be earned by regular enrollment at the university. The student must meet the requirements in liberal studies and in the major as specified by the department head and dean. A student may obtain from the university a second bachelor’s degree provided it is a different degree or the degree is in a different major (students may not earn a second degree in the same major).

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 colleges 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 150-158 semester hours with a 2.0 GPA, including a minimum of 120-128 hours as specified for one degree and a minimum of thirty additional hours for the other (or second) degree through regular enrollment at the university. The thirty additional hours must be selected so as to meet the requirements in liberal studies, the program requirements component of the degree plan, and requirements in the major as specified by the department head and dean for the second degree.
GENERAL UNIVERSITY DEGREE REQUIREMENTS*

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

1. Completion of a minimum of 120 semester hours to a maximum of 128 semester hours under requirements outlined for one of the degree programs.
2. A minimum GPA of 2.0 on all work attempted at Western Carolina University and on all courses in the major.
3. A minimum of 25 percent of semester hours applied toward a bachelor's degree must be earned through regular enrollment in Western Carolina University junior-senior level courses, including a minimum of twelve hours in junior-senior courses in the major field.
4. Fifty percent or more of the credits in the major presented for graduation on the junior-senior level unless the degree program being completed by the student is specifically exempted from the requirement.
5. Be enrolled at Western the intended graduation semester. (Students who wish to pursue an exception to this rule must contact the Registrar's Office.)

Liberal Studies Program

Rationale

At Western Carolina University, all bachelor's degree programs include courses in Liberal Studies designed to provide each student with the knowledge, skills, and attitudes of an educated person. These include the ability to think critically, to communicate effectively, to identify and solve problems reflectively, to use information and technology responsibly, to appreciate the creative and performing arts, and to seek personal development and lifelong learning.

Through a Freshman Seminar in Liberal Studies, first-year students begin to experience intellectual life at the university level. Through participation in an Academic Learning Community, students begin to experience the integration of knowledge. The Core provides students with the academic skills and intellectual habits needed throughout the undergraduate experience; therefore, it should be completed as soon as possible. The Perspectives component of the Liberal Studies program exposes students to important modes of inquiry, discovery, and interpretation through study of the concepts, principles, and theories of the Liberal Arts and Sciences. Because all disciplines at the university can offer courses in the Liberal Studies program, the Perspectives provide a broadened worldview and knowledge base, with opportunities to take courses outside areas of familiarity or major interest. Students also take at least one three-hour course at the upper level (300 or 400 level) in a Perspectives area outside their major. It is a primary goal of the Liberal Studies program to promote lifelong love of learning.

Requirements

The Liberal Studies component includes a total of forty-two semester hours, distributed as listed below.

The Core, 15 hours

C1. Writing, 6 hours.
   ENGL 101, Composition I (3)
   ENGL 102, Composition II (3)

C2. Mathematics, 3 hours. This requirement can be satisfied by any higher-level mathematics course.
   MATH 101, Mathematical Concepts (3)

*See graduate catalog for graduate degree requirements.
C3. **Oral Communication, 3 hours.**  
*CMHC 201, Introduction to Speech Communication (3)  
*Prerequisite - ENGL 101

C4. **Wellness, 3 hours.**  
HEAL 123, Health and Wellness (3)  
HSCC 101, Nutrition, Fitness, and Wellness (3)

**The Freshman Seminar, 3 hours**  
Satisfies one Perspectives category; to be taken the first semester.  
P1 CIS 195, The Information Society at Work (3)  
P1 CJ 190, Controversies in Criminal Justice (3)  
P1 CMCR 190, A User’s Guide to the Mass Media (3)  
P1 EDCI 191, The Great School Wars (3)  
P1 IET 190, Technology Systems (3)  
P1 LAW 195, Contemporary Legal Issues (3)  
P1 MATH 191, Mathematics in Social Choice and Decision Making (3)  
P1 PT 190, Caring for the Aging Population: Challenges and Solutions (3)  
P1 PSC 190, Active Citizenship: Making a Difference in Your Community (3)  
P1 PSY 190, Freshman Seminar (3)  
P1 SOC 190, Freshman Seminar: Social Institutions and Issues (3)  
P2 BIOL 190, Discoveries in Biology (3)  
P2 BIOL 192, Plant Biodiversity (3)  
P2 BIOL 193, Forensic Biology (3)  
P2 CHEM 191, Issues in Environmental Chemistry (3)  
P2 GEOG 191, Geology, Landscapes, and the Human Psyche (3)  
P2 MATH 190, Mathematical Models of Population Growth (3)  
P2 ND 190, Personal Nutrition (3)  
P3 HIST 190, Freshman Seminar (3)  
P4 ENGL 190, Freshman Seminar in Literature (3)  
P4 PHIL 190, Freedom, Culture, and Technology (3)  
P5 ENGL 191, Freshman Seminar in Creative Writing (3)  
P5 MUS 190, Freshman Seminar (3)  
P6 ANTH 190, Freshman Seminar: The Human Condition (3)  
P6 GER 190, Triumph and Tragedy Reflected in Modern German Film (3)  
P6 SPAN 190, Celluloid and Paper Dreams: Hispanic Literature and Film (3)

**The Perspectives, 24 hours**  
P1. **Social Sciences, 6 hours.** Courses in two different disciplines are required.  
ANTH 110, Origins of Civilization (3)  
BA 133, Introduction to Business (3)  
CIS 195, The Information Society at Work (3)  
CJ 190, Controversies in Criminal Justice (3)  
CMCR 190, A User’s Guide to the Mass Media (3)  
EDCI 191, The Great School Wars (3)  
GEOG 101, Population Geography (3)  
IET 190, Technology Systems (3)  
LAW 105, Law and Society. (3)  
LAW 195, Contemporary Legal Issues (3)  
MATH 191, Mathematics in Social Choice and Decision Making (3)
PSC 106. Grassroots Democracy: Citizenship Issues and Participation (3)
PSC 108. Global Issues (3)
PSC 190. Active Citizenship: Making a Difference in Your Community (3)
PSY 150. General Psychology (3)
PSY 190. Freshman Seminar (3)
PT 190. Caring for the Aging Population: Challenges and Solutions (3)
SOC 103. Human Society (3)
SOC 190. Freshman Seminar: Social Institutions and Issues (3)

**P2. Physical and Biological Sciences, 6 hours.** Courses in two different disciplines are required and can be satisfied by 100- and 200-level science courses that include a laboratory or applied component; subject to restriction about major or program requirements.

- AST 103, The Solar System (3)
- AST 104, Cosmic Evolution (3)
- BIOL 102, Human Genetics (3)
- BIOL 103, Environmental Biology (3)
- BIOL 104, Human Biology (3)
- BIOL 105, Biology in the 21st Century (3)
- BIOL 190, Discoveries in Biology (3)
- BIOL 192, Plant Biodiversity (3)
- BIOL 193, Forensic Biology (3)
- CHEM 101, Chemistry in Society (3)
- CHEM 191, Issues in Environmental Chemistry (3)
- ENVH 130, Environmental Health Science: Systems and Solutions (3)
- GEOL 140, Investigations in Environmental Geology (3)
- GEOL 150, Methods in Geology (4)
- GEOL 191, Geology, Landscapes, and the Human Psyche (3)
- MATH 190, Mathematical Models of Population Growth (3)
- ND 190, Personal Nutrition (3)
- PHYS 105, Contemporary Physics (3)

**P3. History, 3 hours.**

- HIST 141. Turning Points in American History: Paths Taken and Rejected (3)
- HIST 142. Lunatics, Dreamers and Ordinary People: Biography in American History (3)
- HIST 151. Turning Points in European History: Paths Taken and Rejected (3)
- HIST 152. Lunatics, Dreamers and Ordinary People: Biography in European History (3)
- HIST 190, Freshman Seminar (3)
- HIST 221, European History to 1648 (3)
- HIST 222, European History Since 1648 (3)
- HIST 231, American History to 1865 (3)
- HIST 232, American History Since 1865 (3)
- REL 106, Western Religious Traditions (3)
- REL 210, Origins of Early Christian Traditions (3)

**P4. Humanities, 3 hours.**

- ENGL 190, Freshman Seminar in Literature (3)
- ENGL 206, Literature of Place (3)
- ENGL 207, Popular Literature and Culture (3)

* Only three of the six credit hours earned in FREN, GER, SPAN 110 apply to general education. The remainder apply to program, major, or elective hours outside of general education.
ENGL 209. Past Times: Literature and History (3)
ENGL 231. Interpretation of Literature (3)
ENGL 290. Literature and the Sacred (3)
PHIL 101. Western Philosophical Traditions (3)
PHIL 102. Western Moral Traditions (3)
PHIL 190. Freedom, Culture, and Technology (3)
PHIL 230. Legal, Scientific and Critical Reasoning (3)

**P5. Fine and Performing Arts, 3 hours.**
ART 104. Introduction to the Visual Arts (3)
CMTA 104. The Theatre Experience (3)
ENGL 191. Freshman Seminar in Creative Writing (3)
MUS 101. Music Appreciation (3)
MUS 190. Freshman Seminar (3)

**P6. World Cultures, 3 hours.**
ANTH 120, Comparative Cultural Systems (3)
ANTH 190, Freshman Seminar: The Human Condition (3)
ENGL 204. The Literature of Culture (3)
FREN 101, Experiencing French and the Francophone World (3)
FREN 102, Experiencing French and the Francophone World II (3)
FREN 110, Experiencing French and the Francophone World: Accelerated (3)
GEOG 103, Cultural Geography (3)
GER 101, Experiencing German and The German-Speaking World (3)
GER 102, Experiencing German and The German-Speaking World II (3)
GER 110, Experiencing German and The German-Speaking World: Accelerated (3)
GER 190, Triumph and Tragedy Reflected in Modern German Film (3)
REL 105, Eastern Religious Traditions (3)
SPAN 101, Experiencing Spanish and the Spanish-Speaking World (3)
SPAN 102, Experiencing Spanish and the Spanish-Speaking World II (3)
SPAN 110, Experiencing Spanish and the Spanish-Speaking World: Accelerated (3)
SPAN 190, Celluloid and Paper Dreams: Hispanic Literature and Film (3)

**Upper Level Perspectives, 3 hours.** One course in any Perspectives category outside the major.
P1 PSY 370, Psychology and Law (3)
P2 ND 300, The Science of Nutrition (3)
P3 HIST 313, The Medieval World (3)
P3 HIST 317. History of Twentieth-Century International Relations (3)
P3 HIST 322, British History to 1603 (3)
P3 HIST 323, British History Since 1603 (3)
P3 HIST 327, Modern Russia (3)
P3 HIST 330, Modern Germany (3)
P3 HIST 341, North Carolina History (3)
P3 HIST 361, Latin American History I (3)
P3 HIST 362, Latin American History II (3)
P3 HIST 371, Modern China (3)
P4 ENGL 350, The Renaissance (3)
P4 ENGL 351, The Beats, Radicals, and Avant-Garde Literature (3)
P4 ENGL 352, The Journey in Literature (3)
P4 ENGL 367, Appalachian Literature (3)
To satisfy the upper-level Perspectives requirement, a student may propose a “contract” to use an upper-level course not otherwise approved by the Liberal Studies program. This contract is between the student, the course instructor, and the Associate Vice-Chancellor for Academic Affairs for Liberal Studies. Specific course requirements, primarily in writing and information use, will be clearly identified or developed to satisfy the Liberal Studies goals and areas of emphasis. Courses used to satisfy the upper-level Perspectives requirement must be outside of the major.

**Perspectives Courses and the Major**

If a particular Liberal Studies Perspectives course is required by a degree program or major, the Perspectives category requirement met by that course will be satisfied for students in that program; however, credit for that course will not count toward the 24 hours of Liberal Studies Perspectives required of every student. In this situation, the student will take an additional elective Liberal Studies course in any Perspectives category outside of the major. In other words, credit hours will not count for both Liberal Studies Perspectives and for major and program requirements.

**Liberal Studies and Transfer Students**

Courses transferred from other institutions to fulfill Liberal Studies requirements will be evaluated by the Registrar, in consultation with the appropriate department head and the Liberal Studies Oversight Committee, based on university guidelines. Credit earned by examination and advanced placement may be applied toward fulfillment of Liberal Studies requirements.

**Programs of Study**

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

**Degree Programs**

The following table lists alphabetically the university’s principal academic programs and indicates the college offering the programs. The colleges are: Applied Sciences (AS); Arts and Sciences (A&S); Business (BUS); and Education and Allied Professions (E&AP).

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<th>Undergraduate Major</th>
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<th>Degree</th>
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<tr>
<td>Major</td>
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<td>Anthropology</td>
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<tr>
<td>Art</td>
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<td>B.S.</td>
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<tr>
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<tr>
<td>Communication</td>
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<td>Emergency Medical Care</td>
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<tr>
<td>General Special Education</td>
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<td>B.S.B.A.</td>
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<tr>
<td>Manufacturing Engineering Technology</td>
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In addition to the curricula offered by a department or jointly by two departments, the university provides a number of special-purpose programs in which students may participate either as a part of the regular degree programs of their choice or as alternatives to them. These opportunities include the following programs:

**National Student Exchange**

Western Carolina University is part of a student exchange consortium of over 150 universities in the United States and its territories. Students participating in National Student Exchange are able to pay their regular tuition to WCU and study at another university for up to one academic year; any student with a WCU GPA of at least 2.5 is invited to go on exchange. Students must contact the dean of The Honors College at 828-227-7383 by February 1 to go on exchange for the following year.

**An Approved Program**

An approved program is a selection of courses designed to take the place of a minor or second major in cases where a student has a secondary interest in an area not covered by a recognized second major or minor. The program must consist of 16-24 credit hours of courses, developed in consultation with the major adviser and appropriate faculty adviser(s) in the relevant department(s). The approved program must be approved by the department head of the major department, the head of the approved program department, and the dean(s) of all involved college(s), upon consultation with the head of the department(s) which offer(s) the courses in the approved program.

**Special Studies Programs**

A Special Studies Program is an interdisciplinary program to take the place of a recognized major program in cases where a student wishes to earn a degree in a specialized area not covered by recognized majors, or an area that intersects two or more recognized majors and cannot be accommodated by a combination of a recognized major and minor, second major, or approved program.

A Special Studies program is developed by the student in consultation with an academic adviser in one of the primary departments, and in consultation with advisers/faculty from all involved departments.

The program should include completion of the liberal studies program, and any other applicable College and University requirements. It should include a distribution of courses to complete the Special Studies program, in place of a recognized major, plus a minor, second major, or approved program (as needed). It should include a plan for some kind of senior project, capstone course, or final assessment component.

The Special Studies Program will be approved by all involved department heads, the Curriculum committees of all involved colleges, and the Instruction Committee of the
Council on Instruction and Curriculum. The Instruction Committee should pay particular attention to the assessment component(s) of the proposed program. The Instruction Committee will make a recommendation for acceptance or rejection of the proposed program to the Council on Instruction and Curriculum. Upon acceptance of the program by the Council, the Special Studies program will be sent to the Faculty Senate for information only.

The Honors College
The Honors College is designed to enhance the academic and social university experience for high-achieving students. The College consists of Honors courses throughout liberal studies, with an emphasis on special projects and undergraduate research in the major. The College manages (for all WCU students) the annual Undergraduate Expo, the Undergraduate Research Grant Program, WCU's participation in the National Conference on Undergraduate Research and National Student Exchange. Students in the College are invited to live in Reynolds or Buchanan Halls, which are Honors residences. Students who complete 30 hours of Honors credit and who graduate with at least a 3.3 cumulative GPA will earn The Honors College diploma. This special diploma is available to all majors.

Students already enrolled at WCU or transfer students who have at least a 3.5 cumulative GPA are invited to apply for admission to the College; they will be admitted on a case-by-case basis. First-year students will be considered for admission if they meet at least one of the following criteria: a 3.75 GPA in high school, top 10 percent ranking in high school class, 1200 SAT or 30 ACT score.

In determining credit hours for class rank (freshman, sophomore, junior and senior) and standing in The Honors College, transfer credit, Advanced Placement credit, and credit for courses surpassed are counted in the total number of hours (though such credit does not figure into a student's grade point average at WCU).

For more information about The Honors College, please contact the dean at 828-227-7383 or visit the College web site at www.wcu.edu/honorscollege.

Study Abroad
As a part of its commitment to international education, the university offers a wide range of study abroad programs. Year and semester programs offered through the UNC Consortium and WCU bilateral agreements are true exchanges whereby students pay WCU tuition and comparable room and board abroad. Other programs are provided through various agencies and institutions and range from intensive language to specialized program studies abroad. These are administered by the Office of International Programs and Services. Summer abroad programs sponsored by WCU professors are handled by the Division of Continuing Education.

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

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

The general preprofessional preparation needed for some of the programs about which students inquire most often is described below. Students interested in programs in
professional fields other than those described should direct their inquiries to the advisement coordinator in the Advising 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 of engineering to which the student plans to transfer.

WCU’s pre-engineering program has been approved by the Subcommittee on Engineering Transfer. This allows qualified WCU students to transfer to the engineering programs at North Carolina A & T, North Carolina State University, and the University of North Carolina at Charlotte and ensures the acceptance of technical program course credits at these universities. Since most core courses in the sciences and mathematics are uniform in most accredited engineering schools, students may elect to transfer to other engineering schools of their choice. Students are advised by a faculty adviser in the Department of Chemistry and Physics.

**Pre-Law.** Law schools typically require a bachelor’s degree for admission, but no one curriculum or major is recommended or prescribed for admission. Pre-law students are urged to consult the catalog of the law school the student plans to attend for specific requirements. Students are advised by the coordinator of pre-law advisement.

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

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

By agreement between Western Carolina University and Bowman Gray School of Medicine, students may earn a Master of Science degree in biology or chemistry at Western Carolina University and receive credit for selected courses toward a Ph.D. degree 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 Advising Center and the departments of biology and chemistry/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 participates in the general transfer agreements developed by the University of North Carolina General Administration in cooperation with the North Carolina community colleges. The university is developing additional agreements and transfer guides with individual community colleges in all academic areas. For additional information, contact the transfer coordinator in the WCU admissions office or a local community college.

**Cooperative Program in Agriculture and Life Sciences**

Students who complete a two-year prescribed course of study at Western Carolina University have the opportunity to transfer to North Carolina State University in one of the following bachelor’s degree programs in the School of Agriculture and Life Sciences:
Agricultural economics, agricultural business management, agronomy, animal science, biological and agricultural engineering, biochemistry, biological sciences, botany, conservation, fisheries and wildlife sciences, food science, horticultural science, medical technology, pest management, poultry science, applied sociology, zoology, and selected preprofessional programs. For further information, contact the department head in the Geosciences and Natural Resources Management Department.

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. For further information, contact the department head in the Geosciences and Natural Resources Management Department.

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 Department Head in the Geosciences and Natural Resources Management department.

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. To further its commitment to the preparation of well-qualified graduates, the university provides various types of support to departmentally developed experiential activities. It also operates university-wide programs that make work opportunities directly related to their fields of study available to all students.

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

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

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

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

4. The university/college has an agreement on file with specific work sites assuring that the experiences will provide opportunities for application of the knowledge, skills, and competencies gained from on-campus academic programs.
5. All courses have regularly-employed faculty members responsible for all students participating in external instruction courses.

Cooperative Education Program. Cooperative education is a program in which students combine academic study with career-related work experience while pursuing a degree. Designed to be an integral part of the educational experience, the program offers experiential learning in both full-time and part-time positions in virtually all majors. Participants are primarily undergraduates, but some graduate programs offer co-op to their students. Information about eligibility for the program, work opportunities, and requirements for credit is available from the Career Services/Cooperative Education Office, 237 Killian Annex.

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.

Independent Study. Independent study courses are offered by several departments at Western Carolina University. The content and criteria for each course is determined by each academic department. Credit for these courses range from one to six semester hours credit as determined by the department. Students must be juniors or seniors in order to take an independent study course.
The mission of the College of Applied Sciences is to offer quality education for a variety of professional careers. In fulfilling this role, the college provides undergraduate and graduate educational programs in Cullowhee and Asheville.

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

The college is responsible to the Office of Academic Affairs and is organized into six academic departments (Criminal Justice, Health Sciences, Human Environmental Sciences, Industrial and Engineering Technology, Nursing, and Physical Therapy).

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

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

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

Emergency Medical Care. Admission to the professional sequence requires the completion of a minimum of 60 semester hours including all liberal studies and preprofessional courses. Applicants must hold or be eligible for North Carolina EMT certification and forward an application to the program office by February 15 of each year for entry the following August. Application to the program does not assure acceptance. Articulating and other transfer students holding current paramedic certification should contact the program coordinator about degree requirements and program admission. Students admitted to the professional sequence must earn a grade of C (2.0) 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 liberal studies, program, and preprofessional course requirements with a minimum cumulative GPA of 2.0. Applicants are evaluated on their overall educational records, including achievement in science and non-science courses as well as communication skills. Transfer students will be admitted with provisional status for one semester. Students admitted to the professional sequence will be required to maintain a C (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. In addition, BIOL 291 and BIOL 292 must be completed prior to the spring semester of the first year in the HIM program. 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 (2.0) or above in each professional course in order to remain in the program.

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

Nursing. Admission to the upper-division nursing major is competitive, and priority is given to the best qualified students. To be considered for admission, all students must have completed, or be in the process of completing, 60 semester hours of college work, including all program requirements. Admission is based on cumulative GPA (2.5 minimum) on all previous undergraduate college work and test scores. Further details are in the departmental application packet. Applications from non-RNs should be received with all supporting materials by January 15. Registered nurses may apply at any time of the year. Students must earn a grade of C (2.0) or better in each required course in the major in order to remain in the program.

Nutrition and Dietetics. Students may declare a major in nutrition and dietetics when they have completed, or are concurrently completing, all liberal studies and program requirements. The undergraduate didactic program in nutrition and dietetics (DPD) is accredited by the American Dietetic Association (ADA). Students who complete the program with a minimum GPA of 2.5 and a C (2.0) or better in all major courses will receive an ADA verification statement. This verification statement qualifies graduates to pursue further training in ADA-accredited dietetic internships or ADA-approved preprofessional practice programs, after which they will be eligible to take the ADA registration examination to become registered dietitians. Western Carolina University offers this training within the Dietetic Internship, which is a part of the Master of Health Sciences Degree Program. Admission to the option and to the program is competitive.

DEPARTMENT OF CRIMINAL JUSTICE

*William D. Hyatt, Interim Head*

E. Davis, S. Harb, F. Hawley, N. Okerefozeke

Major in Criminal Justice, B.S. Degree

Liberal Studies, 42 hours

Program requirements, 6 hours: PSY 250 and ENGL 401.

The major requires 51 hours as follows:

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

General electives (29 hours) are required to complete the program. Students are urged to plan, in consultation with their faculty adviser, an elective program that will lead to competency in a secondary area.
Minor in Criminal Justice

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

DEPARTMENT OF HEALTH SCIENCES

Barbara Lovin, Head


Major in Clinical Laboratory Sciences, B.S. Degree

Liberal Studies, 42 hours

Program requirements, 20 hours: CHEM 140, 241, 242, 272, and BIOL 291, 292.

The major requires 56 hours as follows:
- CLS 300 Microscopy/Phlebotomy, 1 hour
- CLS 301 Analysis of Body Fluids, 3 hours
- CLS 303 Basic Hematology, 3 hours
- CLS 304 Immunology, 3 hours
- CLS 305 Clinical Parasitology, 2 hours
- CLS 306 Immunohematology, 4 hours
- CLS 308 Advanced Hematology, 3 hours
- CLS 309 Clinical Biochemistry, 3 hours
- CLS 311 Basic Medical Microbiology, 3 hours
- CLS 312 Advanced Medical Microbiology, 3 hours
- CLS 406 Laboratory Management, 2 hours
- CLS 485, 486, 487, 488, 489 Clinical Practicums: Urinalysis, 2 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
- HSCC 310 Principles of Clinical Precepting, 1 hour

General electives, 10 hours

Major in Emergency Medical Care, B.S. Degree

Liberal Studies, 42 hours

Program requirements to be completed before the junior year, 20-21 hours: BIOL 291, 292; HSCC 240, 241; and CHEM 132, 133 or 140, 241.

The major requires 57 hours as follows:
- EMC 340 Introduction to Clinical Medicine, 4 hours
- EMC 350 Cardiology, 2 hours
- EMC 351 Basic ECG Interpretation, 1 hour
- EMC 360 Acute Fluid and Respiratory Disorders, 2 hours
- EMC 361 Advanced Emergency Medical Techniques, 1 hour
- EMC 370 Medical Emergencies, 3 hours
- EMC 382 Clinical Practicum I, 1 hour
- EMC 410 Trauma Management, 3 hours
- EMC 420 Maternal and Child Emergency Care, 3 hours
- EMC 430 Special Needs Patients, 2 hours
- EMC 451 Advanced ECG Interpretation, 1 hour
- EMC 483 Clinical Practicum II, 4 hours
- EMC 484 Clinical Practicum III, 2 hours
- EMC 485 MICU Practicum, 3 hours
- EMC 496 Senior Seminar in Emergency Medical Care, 1 hour
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSCC 370 Introduction to Pharmacology, 3 hours
PSY 460 Crisis Intervention, 1 hour

Concentration selected from:
Science, 17 hours: PHYS 130, 131, CHEM 242, 272, plus 4 hours from BIOL 300/400,
CHEM 300/400, and ENVH 470
Health Management, 17 hours: HSMS 310, 450, 470, MGT 300, plus 6 hours from ACCT
161, ECON 231, 235, EMC 445, HSMS 320, 440, 471, MGT 304, MGT 306, MKT 301
General electives (8 hours) including 8 hours at the 300/400 level for students electing the
science concentration are required to complete the program.

Major in Environmental Health, B.S. Degree

Liberal Studies, 42 hours

Program requirements, 17 hours: MATH 130; MATH 170 or PSY 251; MATH 145; PHYS
105 (in addition to courses taken to meet general education requirements); and BIOL 292.
The major requires 62 hours as follows:
Preprofessional courses, 15 hours: CHEM 132, 133, 330; BIOL 413, 414
ENVH 230 Introduction to Environmental Health Science, 3 hours
ENVH 310 Water Quality Control, 4 hours
ENVH 330 Food Protection and Sanitation, 4 hours
ENVH 375 Environmental Toxicology, 3 hours
ENVH 440 Air Quality Control, 4 hours
ENVH 457 Industrial Hygiene, 3 hours
ENVH 458 Environmental Regulation and Law, 3 hours
ENVH 460 Senior Seminar in Environmental Health, 1 hour
ENVH 470 Principles of Epidemiology, 3 hours
ENVH 475 Environmental Program Administration, 3 hours
ENVH 483 Environmental Health Internship, 3 hours
GEOG (GEOL) 305 Soils and Hydrology, 4 hours
Designed emphasis area (9 hours) in industrial safety, public health, water quality, chemistry,
environmental protection, or natural resources management.

General electives (7 hours) are required to complete the program. The courses selected in the
designated emphasis area and in general electives must include, in combination, at least 8
hours at the junior-senior level.

Major in Health Information Management, B.S. Degree

Liberal Studies, 42 hours

Program requirements, 18 hours: CHEM 132; MATH 170 or PSY 251; BIOL 291, 292; and
CIS 251.
The major requires 60 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 402 Controlling Resources in Health Information Management, 2 hours
HIM 403 Health Data Collection, 3 hours
HIM 404 Health Information Classification Systems I, 4 hours
HIM 405 Health Information Classification Systems II, 3 hours
HIM 406 Topics in Health Information Management, 2 hours
HIM 408 Health Care Information Systems, 2 hours
HIM 410 Computers in Health Care, 3 hours
HIM 412 Regulations and Comparative Record Keeping, 2 hours
HIM 484 Clinical Practicum I, 3 hours
HIM 485 Clinical Practicum II, 1 hour
HIM 486 Clinical Practicum III, 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
HSM 310 Systems and Trends in Health Care Delivery, 3 hours
HSM 320 Human Resource Management in Health Care Agencies, 3 hours
HSM 440 Quality Management in Health Care Agencies, 3 hours
Electives (8 hours) are required to complete the program.

Major in Health Services Management, B.S. Degree
Liberal Studies, 42 hours
Program requirements, 9 hours: CIS 251, OA 304; and PSY 251 or ECON 235 or MATH 170.
The major requires 54 hours as follows:
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSM 310 Systems and Trends in Health Care Delivery, 3 hours
HSM 320 Human Resource Management in Health Care Agencies, 3 hours
HSM 440 Quality Management in Health Care Agencies, 3 hours
HSM 450 Financial Management in Health Care, 3 hours
HSM 470 Research Methodology and Analysis in Health Sciences, 2 hours
HSM 471 Research Project, 1 hour
MGT 300 Introduction to Management, 3 hours
MGT 306 Behavioral Science in Organizations, 3 hours
Discipline area, 30 hours: Up to 30 hours of appropriate credit as determined by the College of Applied Sciences in the allied health specialty will be accepted for certified allied health personnel. If less than 30 hours are accepted, the difference may be made up through basic science courses or courses in specified areas of interest. If transfer credit does not include five hours at the upper-division level, an additional five hours of 300-400 level general electives must be completed.

15 hours of general electives at the junior-senior level are required to complete the program.

Major in Nutrition and Dietetics, B.S. Degree
Liberal Studies, 42 hours
Program requirements, 11 hours: CHEM 132, 133; and PSY 150.
The major requires 53 hours as follows:
ND 231 Food Science, 4 hours
ND 330 Human Nutritional Needs, 3 hours
ND 334 Nutritional Applications, 2 hours
ND 340 Community Nutrition, 2 hours
ND 433 Research Methods in Nutrition, 3 hours
ND 434 Experimental Methods in Foods, 3 hours
ND 436 Advanced Human Nutrition, 4 hours
ND 437 Diet Therapy, 4 hours
ND 439 Introduction to Professional Practice, 3 hours
HSCC 310 Principles of Clinical Precepting, 1 hour
HM 333 Quantity Foods, 3 hours
HM 430 Food Systems Management, 3 hours
BIOL 292 Human Anatomy and Physiology, 4 hours
BIOL 313 or HSCC 260 Microbiology in Health and Nutrition or Etiology of Infectious Diseases, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 2 hours
HSM 320 Human Resource Management in Health Care Agencies, 3 hours
HSM 450 Financial Management in Health Care, 3 hours
MATH 170 Applied Statistics or PSY 251 Research Methods I: Statistics, 3 hours

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

**Minor in Nutrition and Dietetics**
The minor requires 18-22 hours, including ND 231, 330 and 334, and 8 hours of approved electives.

**DEPARTMENT OF HUMAN ENVIRONMENTAL SCIENCES**

*Davia Allen, Head*

*J. Dowell, S. Grunwell, J. Hall, J. King, G. Liverman, L. Roberts, J. Smaglik, K. Special, J. Temple, M. Yops*

**The Birth-Kindergarten Program**
Admission and retention policies in the BK program 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, the program. The state and NCATE guidelines require continuous evaluation of students admitted to the program and mandate that those found unlikely to succeed as teachers should be withdrawn.

**Admission to the Birth-Kindergarten Program**
Students in this program will meet the competencies established by the State Department of Public Instruction for the BK license and professional studies. Entrance into the program will require a passing score on Part I of the PRAXIS; an overall GPA of 2.5; the completion of a total of 45 hours with at least 35 hours of liberal studies; a grade of C (2.0) or better in ENGL 101, 102 and ENGL 300 (if required); a personal interview and a satisfactory evaluation from the BK faculty. Students must meet all requirements for admission prior to earning 90 hours of credit. Applicants already holding a non-teacher education degree must meet these requirements, except they are not required to take PRAXIS I. They must have had a 2.5 GPA at the time of graduation. The professional education sequence will include BK 260; SPED 240; CFS 261, 363; and BK, SPED, EDEL 483 and 496. Students must apply for admission to the program no later than the semester in which they will complete 12 hours of the courses in the professional sequence. For official admission to the BK program students must also be 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 BK area is determined on the basis of demonstrated academic abilities and on personal characteristics conducive to effective teaching.

**Continuation in the BK program.** The requirements for continuing in the program are: (1) a GPA of at least 2.5 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, which is prerequisite to internship. An evaluation of each field experience assignment will become a part of the student's professional record.

If a student fails any course in the professional education sequence and/or communication skills, the student is withdrawn from teacher education.
Major in Birth-Kindergarten, B.S. Degree
Liberal Studies, 42 hours

Professional education requirements, 32 hours: BK 260, BK-SPED-EDEL 483, BK-SPED-EDEL 496, CFS 261, CFS 363, SPED 240

Major requirements: 41 hours as follows:
BK 361 Environments for Young Children, 3 hours
BK 462 Adult Child Interactions, 3 hours
EDEL 314 Kindergarten Curriculum, 3 hours
BK 366 Infant Development and Curriculum, 3 hours
BK 493 Special Topics, 3 hours
BK, SPED, EDEL 470 Early Childhood Curriculum, 3 hours
CFS 467 Perspectives in Parenting, 3 hours
CFS 468 Family Interpersonal Relationships, 3 hours
SPED 313 Assessment of Young Children, 3 hours
SPED 345 Adaptations and Modifications for Young Children with Disabilities, 3 hours
SPED 411 Collaborative Planning, 3 hours
SPED 412 Interagency Practicum, 2 hours
SPED 467 Home Based Intervention, 3 hours
EDEL 313 Literacy and Numeracy, 3 hours

Electives, 13 hours

Major in Child and Family Studies, B.S. Degree
Liberal Studies, 42 hours

The major requires 61 hours:
CFS 261 Family Dynamics, 3 hours
CFS 360 Infancy, 3 hours
CFS 363 Child Development, 3 hours
CFS 467 Perspectives in Parenting, 3 hours
CFS 468 Family Interpersonal Relationships, 3 hours
COUN 430 Individual and Group Counseling, 3 hours
FS 262 Introduction to Family Studies, 1 hour
FS 321 Family Finance, 3 hours
FS 362 Family Wellness, 3 hours
FS 364 Survey of Human Development, 3 hours
FS 464 Family and Community, 3 hours
FS 469 Middle and Later Life Families, 3 hours
FS 483, 484, 485 Internship, 3 hours each course
FS 497 Child and Family Seminar, 3 hours
PSY 322 Adolescent Development: Problems and Achievements, 3 hours or FS 367 The Adolescent in the Family, 3 hours
PSY 331 Human Sexuality, 3 hours
Related electives (9 hours) (cultural diversity-3 hours, gender issues-3 hours, other-3 hours) approved by the adviser, are required.

General electives (17 hours) are required to complete the program.

Major in Hospitality Management, B.S. Degree
Liberal Studies, 42 hours

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

The major requires 64 hours as follows:
HM 130 Introduction to the Hospitality Industry, 3 hours
LAW 230 Legal Environment of Business, 3 hours
LAW 402 Hospitality Law, 3 hours
MGT 300 Introduction to Management, 3 hours
MGT 304 Personnel Management, 3 hours
MKT 301 Principles of Marketing, 3 hours
FIN 305 Financial Management, 3 hours
ND 330 Human Nutritional Needs, 3 hours
ENRH 330 Food Protection and Sanitation, 4 hours
HM 333 Quantity Foods, 3 hours
HM 335 Lodging Management, 3 hours
HM 338 Computer Applications in the Hospitality Industry, 3 hours
HM 339 Cost Control in the Hospitality Industry, 3 hours
HM 430 Food Systems Management, 3 hours
HM 431 Hospitality Marketing Management, 3 hours
HM 433 Strategic Planning in the Hospitality Industry, 3 hours
PRM 440 Travel and Tourism, 3 hours
IET 424 Facilities Management and Maintenance, 3 hours
HM 483, 484 Internship or HM 389 Cooperative Education in HM (6)
CFS 261 Family Dynamics, 3 hours

General electives, 11 hours

**Major in Interior Design, B.S. Degree**

Liberal Studies, 42 hours

Program requirements, 12 hours: ART 132, ART 142, IET 151, CFS 261.

The major requires 63 hours as follows:

IDSN 152 Architectural Drafting and Design I, 3 hours
IDSN 153 Introduction to Interior Design, 2 hours
IDSN 251 History of Furniture and Design I, 3 hours
IDSN 252 History of Furniture and Design II, 3 hours
IDSN 253 Space Planning, 3 hours
IDSN 255 Perspective Drawing, 3 hours
IDSN 256 Survey of Interior Materials, 3 hours
IDSN 257 Lighting Design and Color, 3 hours
IDSN 258 Residential Design I, 3 hours
IDSN 310 CADD for Design, 3 hours
IDSN 342 Architectural Construction Processes, 3 hours
IDSN 352 Architectural Detailing & Design II, 3 hours
IDSN 353 Residential Design II, 3 hours
IDSN 357 Contract Design I, 3 hours
IDSN 451 Kitchen and Bath I, 3 hours
IDSN 452 Kitchen and Bath II, 3 hours
IDSN 454 Senior Research, 2 hours
IDSN 455 Senior Project, 2 hours
IDSN 456 Contract Design II, 3 hours
IDSN 457 Problem Solving in Design, 3 hours
IDSN 458 Professional Practice in Interior Design, 3 hours
IDSN 483 Internship, 3 hours

General electives (11 hours), including at least 3 hours at the junior-senior level, are required to complete the program.

To continue in the program, students must earn a grade of C or better in each IDSN course in the major.

**Minor in Child Studies**

The minor requires 21 hours, including CFS 261, 360, 363, 467; BK 260, 361, 462.

**Minor in Family and Consumer Sciences**

The minor requires 20 hours, including 12 hours selected from ND 231; CTM 242; CDFR 261; HE 321; IDSN 256 and 8 hours of electives.
Minor in Family Studies
The minor requires 21 hours, including CFS 261, 467, 468; FS 362, 364, 464; and FS or CFS electives (3 hours).

Minor in Hospitality Management
The minor requires 21 hours, including HM 130, 333, 335, 430, MGT 300, PRM 440 and a 3 hour junior or senior elective selected from hospitality management, management, or nutrition and dietetics.

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

DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY
George DeSain, Head

Major in Electronics Engineering Technology, B.S. Degree
Liberal Studies. 42 hours

Program requirements, 21 hours: MATH 145, 146, 153, 170; PHYS 130, 131.

The major requires 60 hours as follows:

Core courses, 37 hours:
- CS 150 Computer Programming I, 4 hours
- CS 151 Computer Programming II, 4 hours
- EET 141 Electronic Drafting, 1 hour
- EET 142 Electronic Fabrication, 1 hour
- EET 231 Circuit Analysis I, 4 hours
- EET 232 Circuit Analysis II, 4 hours
- EET 311 Electronic Circuits, 4 hours
- EET 331 Digital Integrated Circuits, 4 hours
- EET 341 Advanced Circuit Analysis, 3 hours
- EET 431 Microprocessors, 4 hours
- EET 478 Senior Design Project Proposal, 1 hour
- EET 479 Senior Design Project, 3 hours

Concentration (23 hours) selected from one of the following:
- Automation: EET 332, 452 and MET 231, 331, 341, 431, 441.
- Telecommunications: EET 312, 343, 345, 346, 444, 445, 446.

Five hours of junior-senior level electives are required to complete the program.

To enroll in the junior-senior electronics major courses, students must have completed the following courses with a “C” or better: EET 231, 232 and MATH 153.

Major in Industrial Distribution, B.S. Degree
Liberal Studies. 42 hours

Program requirements, 16 hours: MATH 130, 144, 170; PHYS 130; and ECON 231.

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

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

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

Liberal Studies. 42 hours

Program requirements. 6 hours: MATH 144, 170; 8 hours selected from PHYS 130, 131, CHEM 132, BIOL 134.

The major consists of a core requirement (24 hours) and an area of concentration (30 hours).

The core requires 24 hours as follows:
CS 130 Introduction to Computing, 3 hours
ECON 231 Introductory Economics and Social Issues, 3 hours
IT 335 Industrial Safety, 3 hours
IT 495 Industrial Technology Seminar, 3 hours
MET 132 Engineering Graphics, 3 hours
MET 141 Manufacturing Materials and Processes, 3 hours
MET 231 Engineering CADD, 3 hours
MET 331 Quality Control I, 3 hours

**Safety Science:** 30 hours from CJ 360; ENVH 312, 457; HSCC 240; IET 421, 424; IT 336, 337, 338, 370. Designed emphasis area (9 hours) in technology, management, environmental health and/or health sciences, or approved program. General electives (5 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 9 hours at the junior-senior level.

**Industrial Management:** 30 hours from ENGL 305; IET 421, 434; MET 332, 342, 436; MGT 300, 304, 407; OA 304; PSY 313. To complete the program a total of 14 hours (of which 6 must be junior-senior level) is necessary.

**Facilities Management:** 30 hours from IET 151, 152, 342, 410, 424, 434; IT 370; MGT 300, PRM 250; SM 435. To complete the program a total of 14 hours at the junior-senior level is necessary.

**Second Major or Approved Program:** 30 hours. To complete the program a total of 14 hours of electives is necessary. Thirty-six of the 45 hours must be junior-senior level.

**Major in Manufacturing Engineering Technology, B.S. Degree**

Liberal Studies. 42 hours

Program requirements. 25 hours: MATH 145, 146, 153, 170; PHYS 130, 131; and CHEM 132.
Major requirements, 56 hours as follows:
EET 301 DC/AC Electricity, 3 hours
EET 302 Industrial Instrumentation and Control, 3 hours
IT 335 Industrial Safety, 3 hours
IET 420 Polymer Technology, 4 hours
CS 130 Introduction to Computing, 3 hours
MET 132 Engineering Graphics, 3 hours
MET 141 Manufacturing Materials and Processes, 3 hours
MET 231 Engineering CADD, 3 hours
MET 242 Machining Processes, 3 hours
MET 321 Statics and Strength of Materials, 3 hours
MET 331 Quality Control I, 3 hours
MET 332 Quality Control II, 3 hours
MET 341 CNC Machining Technology, 3 hours
MET 342 Manufacturing Analysis and Planning, 3 hours
MET 431 Automated Manufacturing, 3 hours
MET 436 Engineering Economic Analysis, 3 hours
MET 441 Fluid Power and Systems Analysis, 3 hours
MET 478 Senior Design Project Proposal, 1 hour
MET 479 Senior Design Project, 3 hours

Five hours of electives at the junior-senior level are required to complete the degree program.

To enroll in the junior-senior level manufacturing courses, students must have passed MATH 170 and 153 and completed the following courses with a grade of C or better: MET 231, 242.

**Major in Occupational Education for Trade and Industry, B.S.Ed. Degree**
This program is on inactive status and no new students are being enrolled.

**Minor in Architectural Drafting**
The minor requires 18 hours including IET 151, 152, 342, 352, 410, and 424.

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

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

**Minor in Telecommunications**
A minor of 18-24 hours may be arranged with the approval of the electronics engineering technology coordinator to meet the individual needs and interests of non-majors.

Note: A typical minor will include the following: EET 231 or PHYS 131/231, EET 331 or equivalent digital logic course, EET 431 or equivalent microprocessor programming/interfacing course, EET 343, EET 345 or CS 465 or CIS 365, EET 346, EET 445, and EET 446.
Occupational Safety Certificate

Students may elect to include in their programs of study a 14-15 hour sequence in the area of occupational safety. Emphasis is placed on interpretation, application, and administration of the Occupational Safety and Health Act and other regulations to assist students to develop entry-level expertise that can be applied directly in business and industry. Students who complete HEAL 120 or ENVH 230 or ENVH 457; HSCC 240; and IT 335, 336 and 337, or their equivalents, with a minimum GPA of 2.0 will be awarded a certificate in occupational safety by the Department of Industrial and Engineering Technology. The certificate is co-sponsored by the North Carolina Industrial Commission.

DEPARTMENT OF NURSING

Sandra A. Greniewicki, Head


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

Liberal Studies, 42 hours

Program requirements, 22 hours: BIOL 291, 292; CHEM 132 or 140; HSCC 260; and PSY 150 or approved substitute.

The major requires 53 hours as follows:

NSG 340 Basic Nursing Skills, 4 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, 3 hours
NSG 470 Nursing Research, 3 hours
NSG 475 Perspectives of the Nursing Profession, 2 hours
ND 338 Normal and Therapeutic Nutrition, 3 hours
HSCC 370 Introduction to Pharmacology, 3 hours

General electives (11 or more hours), are required to complete the program.

Capstone Curriculum Option (for registered nurses)

Liberal Studies, 42 hours

Program requirements, 22 hours: BIOL 291, 292; CHEM 132 or 140, 133; HSCC 260; and PSY 150 or approved substitute.

The major requires 52 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, 28 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, 3 hours
NSG 470 Nursing Research, 3 hours
NSG 475 Perspectives of the Nursing Profession, 2 hours
NSG 483 Practicum in Clinical Management, 3 hours
ND 338 Normal and Therapeutic Nutrition, 3 hours

General electives (11 hours) are required to complete the program.
The role of the College of Arts and Sciences is to serve as a community of scholarship involving students and faculty in a broad range of intellectual and aesthetic activities. The most significant of these activities is the teaching/learning process that takes place between students and faculty in classrooms, laboratories, studios, and field locations. The college provides a varied curriculum in the fine arts, humanities, and sciences. The curriculum includes general education courses that provide the basic intellectual skills and perspectives essential for preparing all university students for effective participation in modern life. In addition, specialized courses are offered that serve the baccalaureate and graduate degree programs of this college and its sister colleges. Many departments in the college are actively involved in teacher preparation.

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

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

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

**DEPARTMENT OF ANTHROPOLOGY AND SOCIOLOGY**

Anne Rogers, Head

J. Bardo, M. Chamberlin, P. Coyle, R. Gurevich, J. Hickey, T. Hickey, N. Mwaniki

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

Liberal Studies, 42 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
- 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 (9 hours) in junior-senior courses

To complete the program, 44 hours are required, including a second major, minor, or other approved program. Students must take at least 32 hours at the junior-senior level at WCU to satisfy general degree requirements.
Major in Anthropology, B.S. Degree
All the requirements for the degree are the same as those listed previously for the bachelor of arts degree, except that a foreign language is not required and electives are increased by 6 hours.

Major in Sociology, B.A. Degree
Liberal Studies, 42 hours
Program requirements, 6 hours: MFL 231-232 or 240
The major requires 33 hours. The following courses are required:
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 sociology major selected from sophomore, junior, or senior level sociology courses.
To complete the degree, 39 hours are required, including a minor, second major or other approved program. Students must take at least 30 hours at the junior-senior level at WCU to satisfy general university degree requirements.

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 general electives are increased by 6 hours.

Minor in Sociology
The minor requires 21 hours, including SOC 231 and 18 hours of sophomore, junior, or senior level sociology courses.

Minor in Anthropology
The minor requires 21 hours, including ANTH 250, 260, and 15 hours of junior-senior level anthropology courses.

Minor in Cherokee Studies
See requirements under Arts and Sciences Interdisciplinary programs.

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

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

Interdisciplinary Minor in Women's Studies
See requirements under Arts and Sciences Interdisciplinary Programs.

DEPARTMENT OF ART
Robert Godfrey, Head
Major in Art, B.F.A. Degree

Liberal Studies, 42 hours

Program requirements, 3 hours: PHIL 310.

The major requires 66 hours as follows:
131 Introductory Drawing, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
141 Figure Drawing, 3 hours
142 Three-Dimensional Design, 3 hours
416 Contemporary Art History, 3 hours
474 Portfolio, 3 hours

Art history electives (6 hours) at the junior-senior level and studio electives (12 hours for studio and 15 hours for graphic design) selected from 233, 234, 241, 251, 270, 350, 352, 354, 359, 372, 459, and 480 are required. (Students in graphic design must take 270 and 372, and 9 additional studio elective hours.)

Concentration (21-24 hours) selected from:

Studio: 24 hours of courses at the junior-senior level, taken in no more than two areas, selected from painting/drawing, printmaking, book arts, sculpture, ceramics, and photography are required to complete the major.

Graphic Design: 21 hours, including ART 370, 371, 374, 474, and 483 or 389, and 9 hours selected from photography*, printmaking*, book arts*, and graphic design at the junior-senior level are required to complete the program. *No more than one course each from these areas will apply towards this requirement.

General electives (17 hours) are required to complete the program. At least 32 hours taken at WCU must be at the junior-senior level to meet one of the general university degree requirements. To continue in the program, students must earn a grade of C or better in each course in the major.

Major in Art, B.A. Degree

Liberal Studies, 42 hours

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

The major requires 42 hours as follows:
131 Introductory Drawing, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
141 Figure Drawing, 3 hours
142 Three-Dimensional Design, 3 hours
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 is required.

To complete the program, a total of 38 hours is required, including a second major, minor, or other approved program and general electives. At least 32 hours taken at WCU must be at the junior-senior level to meet one of the general university degree requirements. To continue in the program, students must earn a grade of C or better in each art course in the major.

Major in Art, B.S.Ed. Degree

Liberal Studies, 42 hours

The major requires 58 hours as follows:
131 Introductory Drawing, 3 hours
132 Two-Dimensional Design, 3 hours
136, 137 Art History Survey I, II, 6 hours
142 Three-Dimensional Design, 3 hours
263 Introduction to Art Education, 1 hour
365 Art Methods for the Elementary School, 3 hours
367 History and Philosophy of Art Education, 3 hours
416 Contemporary Art, 3 hours
463 Art Methods for the Middle and High School, 3 hours

3 hours art history electives at the junior-senior level
18 hours art studio: 233, 234, 241, 251, 270, 372
9 hours art studio electives selected as 300- or 400-level courses in the same studio discipline.

The professional education sequence (25 hours) for secondary and special subject teaching, exclusive of the methods course, and general electives (3 hours) are required to complete the program. To continue in the program, students must earn a grade of C (2.0) or better in each art course in the major.

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

ARTS AND SCIENCES INTERDISCIPLINARY PROGRAMS

Robert Vartabedian, Dean

Minor in American Studies
The minor requires 18 hours, including ENGL 261, 262, and one junior-senior level American literature course selected from ENGL 365, 367, 463, 464, 479, or 480; and 9 hours from other course offerings with a focus on the American landscape, life, history or culture, including ANTH 417, 431, 461, 473; ART 314; ASI 493, 494; BIOL 251, 425; GEOG 400 (all of which have prerequisites); HIST 231, 232, 341, 432, 433, 434, 435, 436, 442, 443, 445, 446, 451; PHIL 330; PSC 231, 302, 305, 306, 334, 347, 407. (Available to all majors.)

Interdisciplinary Minor in Appalachian Studies
The minor requires 21 hours, including ASI 250 and 450, and 15 hours of electives from ANTH 417, ANTH 473, BIOL 251, ENGL 367, HIST 445, HIST 446, and HIST 472.

Minor in Cherokee Studies
The minor requires 21 hours, including HIST 445; CHER 101, 132; ANTH 461, 473; and 6 hours of electives selected from CHER 231, 232; ANTH/ART 379; and USI 394.

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

Interdisciplinary Minor in Religious Studies
The minor requires 18 hours: 9 required hours in REL 105, REL 106 and either PHIL 312 (Philosophy of Religion) or REL 493 Topics in Religion. 9 hours from the following electives with no more than two courses from each discipline REL 380, PHIL 312, PHIL 304, PHIL 305, PHIL 307, PHIL 341, PHIL 493, ANTH 260, ANTH 341, ANTH 365, ANTH 466,
ENGL 390, ENGL 420, ENGL 440, HIST 311, HIST 313, HIST 370, HIST 412, HIST 431, HIST 442, ART 306.

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; and SOCW 373.

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

Minor in Women's Studies
The minor requires 18 hours, including ASI 230, ENGL 477, HIST 451, SOC 326, and electives from ANTH 419, LAW 306, NSG 360, PSC 351, PSY 333, SOC 418, SOC 420, PSY 351, CMHC 414, and appropriate topics from ANTH 481, PSY 480, SOC 480, and CMPR 493.

DEPARTMENT OF BIOLOGY

Henry R. Mainwaring, Head


Major in Biology, B.S. Degree
Liberal Studies, 42 hours

Program requirements with all emphases, 4 hours: CHEM 140. Additional requirements: with the preprofessional emphasis, 14 hours, including MFL 231-232 or 240; MATH 130 and MATH 140 or equivalent; with a horticulture emphasis, 3 hours in MATH 130; and with a business emphasis, 6 hours in MATH 130, 170.

The major requires 55-65 hours as follows:
140, 141 Principles of Biology I, II. 8 hours
304 General Ecology, 3 hours
305 Genetics and Evolution, 3 hours
333 Cell and Molecular Biology, 3 hours
496 Senior Seminar, 1 hour

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

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

Preprofessional, 30 hours: CHEM 241, 242, 272; PHYS 130, 131; and 14 hours of junior-senior biology electives.

Environmental Health, 36 hours: BIOL 413, 414; CHEM 133; a physics course (additional to courses taken to meet general education requirements); and ENVH 230, 310, 320, 330, 440, 460, 470, 483.

Business, 36 hours: FIN 305; ACCT 161; ECON 231, 232; MGT 300; MKT 301; PHYS 130, 131; and 10 hours of junior-senior biology electives.

General electives (18-26 hours), are required to complete the program. At least 14 hours 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; and CIS 251 with the business emphasis.

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

Liberal Studies, 42 hours

Program requirements, 8 hours: MATH 130, 140.

The major requires 48 hours as follows:
140, 141 Principles of Biology I, II, 8 hours
304 General Ecology, 3 hours
305 Genetics and Evolution, 3 hours
333 Cell and Molecular Biology, 3 hours
496 Senior Seminar, 1 hour
CHEM 133, 140 Chemistry, 8 hours
PHYS 130, 131 Introductory Physics, 8 hours
GEOL 150, 155 Geology, 8 hours
Biology electives (6 hours) at the junior-senior level

The professional education sequence (28 hours) for secondary and special subject teaching and 2 hours of general electives are required to complete the program.

Minor in Biology

The minor requires 18 hours, including 140, 141, 304, 305, 333, and 496.

DEPARTMENT OF CHEMISTRY AND PHYSICS

Royce Woosley, Head


Major in Chemistry, B.A. Degree

Liberal studies, 42 hours

Program requirements, 19 hours: MATH 140; PHYS 130-131 or 230-231; and MFL 231-232 or 240.

The major requires 32 hours as follows:
140 Advanced General Chemistry, 4 hours
232 Quantitative Analysis, 4 hours
241, 242 Organic Chemistry I, II, 6 hours
272 Organic Chemistry Lab, 2 hours
352 Physical Chemistry I, 3 hours
370 Instrumental Analysis I, 3 hours
371 Chemical Dynamics, 2 hours
495 Seminar, 2 hours
Chemistry electives (6 hours) at the junior-senior level.

A minor, second major, or other approved program and general electives (35 hours), including at least 16 hours at the junior-senior level, are required to complete the program. Premedical, preveterinary, and predental students may complete the program by taking 14 hours of general electives BIOL 140, 141, 305, 333, and 7 hours selected from BIOL 291, 292, 311, 313, 374, 413, 414, 417, 478.
Major in Chemistry, B.S. Degree

Liberal Studies, 42 hours

Core

The major requires 29 hours in Chemistry as follows:
140 Advanced General chemistry, 4 hours
232 Quantitative Analysis, 4 hours
241, 242 Organic Chemistry I, II, 6 hours
272 Organic Chemistry Lab, 2 hours
352 Physical Chemistry I, 3 hours
361 Biochemistry, 3 hours
370 Instrumental Analysis I, 3 hours
371 Chemical Dynamics, 2 hours
495 Seminar, 2 hours

Traditional Chemistry Concentration

Program requirements consist of 16 hours as follows:
PHYS 230, 231 General Physics I, II, 8 hours
MATH 153 Calculus I, 4 hours
MATH 255 Calculus II, 4 hours
The concentration requires 11 hours as follows:
CHEM 321 Inorganic Chemistry, 3 hours
CHEM 372 Chemical Synthesis, 2 hours
CHEM 432 Instrumental Analysis II, 3 hours
CHEM 453 Physical Chemistry II, 3 hours
General electives (30 hours), including at least 8 hours at the junior-senior level, are required to complete the program.

Industrial Chemistry Concentration

Program requirements consist of 16 hours as follows:
PHYS 130-131 or 230-231 Introductory or General Physics, 8 hours
MATH 140 Introductory Calculus, 5 hours
Chemistry electives (3 hours) at the junior-senior level.
The concentration requires 24 hours as follows:
CMTD 315 Organizational Communication, 3 hours
ENGL 305 Technical Writing, 3 hours
FIN 305 Financial Management, 3 hours
LAW 230 Legal Environment of Business, 3 hours
MGT 300 Introduction to Management, 3 hours
MKT 301 Principles of Marketing, 3 hours
Two of the following four courses:
ACCT 251 Accounting Principles I, Financial, 3 hours
ACCT 252 Accounting Principles II, Managerial, 3 hours
ECON 231 Introductory Microeconomics and Social Issues, 3 hours
ECON 232 Introductory Macroeconomics and Social Issues, 3 hours
General electives (17 hours), including at least 1 hour at the junior-senior level, are required to complete the program.

Environmental Chemistry concentration

Program requirements consist of 28 hours as follows:
PHYS 130-131 or 230-231 Introductory or General Physics, 8 hours
BIOL 140, 141 Principles of Biology I, II, 8 hours
GEOL 150 Introduction to Physical Geology, 4 hours
MATH 270 Statistical Methods I, 3 hours
MATH 140 Introductory Calculus, 5 hours  
The concentration requires 17 hours as follows:  
CHEM 330 Aquatic Chemistry (lecture only), 2 hours  
CHEM 461 Environmental Chemistry, 4 hours  
Electives (11 hours) at the junior-senior level chosen from a minimum of two of the  
following areas: CHEM, BIOL, GEOL, ECON, ENVH, & NRM  
General electives (12 hours), including at least 2 hours at the junior-senior level, are  
required to complete the program.

**Major in Chemistry, B.S. Degree-ACS Approved**

Program requirements and major requirements are the same as for the Traditional Chemistry  
Concentration bachelor of science degree. In addition, MATH 256, 4 hours of CHEM 380  
and CHEM 421 are required. General electives, 19 hours, including at least 1 hour at the  
junior-senior level, are required to complete the program.

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

Liberal Studies, 42 hours  
Program requirements, 8 hours: MATH 130, 140.  
The major requires 48 hours as follows:  
CHEM 140 Advanced General Chemistry, 4 hours  
CHEM 232 Quantitative Analysis, 4 hours  
CHEM 241 Organic Chemistry I, 3 hours  
CHEM 242 Organic Chemistry II, 3 hours  
CHEM 272 Organic Chemistry Lab, 2 hours  
CHEM 321 Inorganic Chemistry, 3 hours  
BIOL 140 Principles of Biology I, 4 hours  
BIOL 141 Principles of Biology II, 4 hours  
PHYS 130 or 230 Introductory Physics I or General Physics I, 4 hours  
PHYS 131 or 231 Introductory Physics II or General Physics II, 4 hours  
GEOL 150 Introduction to Physical Geology, 4 hours  
GEOL 155 Historical Geology, 4 hours  
Chemistry electives, 5 hours  
The professional education sequence (28 hours) for secondary and special subject teaching  
and 2 hours of general electives are required to complete the program.

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

Liberal Studies, 42 hours  
Program requirements for all concentrations 8 hours: CHEM 140; CS 150, and in addition,  
For professional concentration 11 hours: MATH 320 and 8 hours of math electives at the  
junior-senior level.  
For medical health concentration 11 hours: BIOL 140 and 141, CHEM 361.  
For environmental concentration 10 hours: CHEM 133 and 330, MATH 270.  
For management concentration 12 hours: ENGL 305, ECON 235 or MATH 270, Business  
electives (6 hours) selected from Foundation of Knowledge for Business courses.  
For engineering concentration 10 hours: MET 141 and 231, PHYS 302.
Core
The major requires 27 hours, as follows:
150 Perspectives on Physics and Technology, 1 hour
230-231 General Physics, 8 hours
310 Modern Physics, 3 hours
360 Laboratory Physics, 2 hours
495 Seminar in Physics, 1 hour
MATH 153, Calculus I, 4 hours
MATH 255, 256 Calculus II, III, 8 hours

Professional Physics Concentration
The concentration requires 25 hours as follows:
PHYS 302 Electronics, 4 hours
PHYS 325 Thermodynamics, 3 hours
PHYS 410 Classical Mechanics, 3 hours
PHYS 440 Electricity and Magnetism, 3 hours
PHYS 450 Quantum Mechanics, 3 hours
Physics electives (9 hours) at the junior-senior level.

General electives (15 hours) are required to complete the major.

Medical/Health Physics Concentration
The concentration requires 25 hours as follows:
PHYS 302 Electronic, 4 hours
PHYS 420 Nuclear Physics, 3 hours
PHYS 440 Electricity and Magnetism, 3 hours
PHYS 454 Computer Interfacing, 3 hours
CHEM 232 Quantitative Analysis, 4 hours
CHEM 241 Organic Chemistry I, 3 hours
CHEM 242 Organic Chemistry II, 3 hours
CHEM 272 Organic Chemistry Lab, 2 hours

General electives (15 hours), including at least 10 hours at the junior-senior level, are required to complete the major.

Environmental Physics Concentration
The concentration requires 25 hours as follows:
PHYS 302 Electronics, 4 hours
PHYS 325 Thermodynamics, 3 hours
PHYS 330 Geophysics, 4 hours
PHYS 410, 440 or 450 Classical Mechanics, Electricity and Magnetism or Quantum Mechanics, 3 hours
PHYS 420, 454 or CHEM 370 Nuclear Physics, Computer Interfacing or Instrumental Analysis, 3 hours
GEOL 150 Physical Geology, 4 hours
GEOL 305 Soils and Hydrology, 4 hours

General electives (16 hours), including at least 2 hours at the junior-senior level, are required to complete the major.

Management Physics Concentration
The concentration requires 24 hours as follows:
PHYS 410, 440 or 450 Classical Mechanics, Electricity and Magnetism or Quantum Mechanics, 3 hours
Physics electives (6 hours) at the junior-senior level
MGT 300 Introduction to Management, 3 hours
MGT 304 Human Resources Management, 3 hours
MGT 305 Quantitative Business Analysis, 3 hours
MGT 306 Behavioral Science in Organizations, 3 hours
MGT 402 Production and Operations Management, 3 hours

General electives (15 hours) are required to complete the major.

**Engineering Physics Concentration**

The concentration requires 26 hours as follows:
PHYS 325 or 322 Thermodynamics or Optics, 3 hours
PHYS 410 or 440 Classical Mechanics or Electricity and Magnetism, 3 hours
Engineering Technology electives (20 hours) selected from MET 321, 331, 431, 441, EET 332, 341, 431, 452 and IET 420.

General electives (15 hours) are required to complete the major.

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

Liberal Studies, 42 hours

Program requirements, 8 hours: MATH 130, 140.

The major requires 48 hours as follows:
PHYS 150 Perspectives on Physics and Technology, 1 hour
PHYS 130 or 230 Introductory Physics I or General Physics I, 4 hours
PHYS 131 or 231 Introductory Physics II or General Physics II, 4 hours
PHYS 310 Modern Physics, 3 hours
PHYS 360 Laboratory Physics, 2 hours
BIOL 140 Principles of Biology I, 4 hours
BIOL 141 Principles of Biology II, 4 hours
CHEM 140 Advanced General Chemistry, 4 hours
CHEM 232 Quantitative Analysis, 4 hours
GEOL 150 Introduction to Physical Geology, 4 hours
GEOL 155 Historical Geology, 4 hours
Physics electives, 10 hours

The professional education sequence (28 hours) for secondary and special subject teaching and 2 hours of general electives are required to complete the program.

**Minor in Chemistry**

The minor requires 21 hours. CHEM 101 and 132 are not valid courses for the minor. At least 5 hours must be at the junior-senior level.

**Minor in Physics**

The minor requires 20 hours, including PHYS 130-131 or 230-231, and 12 hours of junior-senior electives.

**DEPARTMENT OF COMMUNICATION AND THEATRE ARTS**

Kathleen S. Wright, Head

Major in Communication, B.S. Degree
Liberal studies, 42 hours

Program requirements, 6 hours: 3 credit statistics course; CIS 304 or ENGL 401.

The major requires 46 hours including 28 required hours in communication core courses (CMCR) and a 18-hour concentration.

Required Communication Core Courses, 28 hours:
CMCR 140 Introduction to Communication Media, 3 hours
CMCR 150 Interpersonal Communication, 3 hours
CMCR 250 Public Communication, 3 hours
CMCR 301 Writing for Communication Media, 3 hours
CMCR 350 Communication Theory, 3 hours
CMCR 351 Communication Research, 3 hours
CMCR 389 Cooperative Education in Communication or
CMCR 483 Internship in Communication, 3 hours
CMCR 401 Editing for Communication Media, 3 hours
CMCR 465 Communication Ethics and Responsibilities, 3 hours
CMCR 496 Seminar in Professional Development, 1 hour

Concentrations, at least 18 hours selected from:


Print Media (CMPM): CMPM 303, 304, 306, and 404 required; 6 hours from the following: CMPM 302, 305, 402, 403, 406, 493, CMTD 315, and CMPR 360, or 3 hours of adviser-approved courses.

Public Relations (CMPR): CMPR 360, 365, 460, CMPM 303, 404 required; 3 hours selected from CMPR 306, CMTD 315, CMPM 304, 306, 403, or 3 hours of adviser-approved courses.

Communication Training and Development (CMTD): CMTD 315, 316, 412, 413 required; 6 hours selected from CMHC 314, 411, 414, 415, CMTD 493 and CMPM 306.

To complete the program, a total of 34 hours is required, including at least 12 hours of general electives and a minor, second major, or other approved programs. Students may not minor in another communication concentration or the minor in journalism offered in the Department of English. At least 32 hours taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.

Major in Speech and Theatre Arts, B.A. Degree
Speech Concentration deleted—See Communication B.S.
Liberal Studies, 42 hours

Program requirements, 6 hours: MFL 231-232 or 240.
The Theatre concentration requires 40 hours as follows:
CMTA 130 Makeup, 1 hour
CMTA 131 Introduction to Theatre, 3 hours
CMTA 140 Acting I, 3 hours
CMTA 231 Stagecraft I, 3 hours
CMTA 300 Dramatic Literature and Criticism I, 3 hours
CMTA 301 Dramatic Literature and Criticism II, 3 hours
CMTA 331 Stagecraft II, 3 hours
CMTA 340 Acting II, 3 hours
CMTA 350 Directing I, 3 hours
CMTA 400 History of the Theatre I, 3 hours
CMTA 401 History of the Theatre II, 3 hours
CMTA 496 Seminar in Professional Development, 1 hour
8 hours of CMTA junior-senior electives
To complete the program, a total of 40 hours is required, including a minor, second major, or approved program, and at least 12 hours of general electives. At least 32 hours taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.

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

**Admission to the Bachelor of Fine Arts in Theatre.** Entrance into the program will require the following: (1) Sophomore standing and the completion of no more than 90 hours; (2) minimum overall GPA of 2.5; (3) completion of CMTA 131, ENGL 102, a liberal studies course in oral communication, history, and Art or Music with a grade of "C" or better, and completion of a liberal studies science course and the core mathematics course; and (4) resume documenting involvement and/or training in theatre. Applicants must complete a letter of application and present an audition piece/design portfolio. Complete admissions procedures and retention policies are outlined in the PROCEDURAL GUIDE FOR THE BFA IN THEATRE located in the Department of Communication and Theatre Arts.

**Liberal Studies, 42 hours**

The major requires 64 hours including 34 required hours in theatre core courses, 15 hours of interdisciplinary core, and a 15-hour concentration.

Required courses, 34 hours:
- CMTA 130 Makeup, 1 hour
- CMTA 131 Introduction to Theatre, 3 hours
- CMTA 140 Acting I, 3 hours
- CMTA 231 Stagecraft I, 3 hours
- CMTA 300 Dramatic Literature and Criticism I, 3 hours
- CMTA 301 Dramatic Literature and Criticism II, 3 hours
- CMTA 331 Stagecraft II, 3 hours
- CMTA 340 Acting II, 3 hours
- CMTA 350 Directing I, 3 hours
- CMTA 400 History of the Theatre I, 3 hours
- CMTA 401 History of the Theatre II, 3 hours
- CMTA 496 Seminar in Professional Development, 1 hour
- CMTA 499 BFA Thesis, 2 hours

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

A concentration of 15 hours selected from one area:

**Acting:** 9 hours from CMTA 341, 345, 346, 351, 441; and 6 hours from ANTH 260, PSY 150, PHIL 310, 312.

**Costume Design:** CMTA 332, 337, 437; CTM 340; and 3 hours from CTM 242, 342, 343, 344.

**Lighting Design:** CMTA 332, 335, 435; and 6 hours from ART 131, IET 151, HEAL 250, IDSN 153.

**Scenic Design:** CMTA 332, 333, 433; and 6 hours from ART 131, IET 151, HEAL 250, IDSN 153.

**Technical Production:** CMTA 332; 6 hours from CMTA 330, 333, 335, 337; and 6 hours from ART 131, IET 151, HEAL 250.

To complete the program, a total of 22 hours of general electives is required. A student will have only one concentration in the B.F.A. degree. At least 32 hours taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.
Minor in Communication

The minor requires 21 hours: CMCR 140, 150, 250, 301, 350, 401 and 465.

Minor in Theatre

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

DEPARTMENT OF ENGLISH

Brian Railsback, Head


Major in English, B.A. Degree

Journalism Concentration

Liberal Studies, 42 hours

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

The major requires 39 hours as follows:
ENGL 251 Survey of English Literature I, 3 hours
ENGL 252 Survey of English Literature II, 3 hours
ENGL 261 Survey of American Literature I, 3 hours
ENGL 262 Survey of American Literature II, 3 hours
ENGL 307 Professional Editing and Publishing, 3 hours
ENGL 389 Cooperative Education: Professional Writing (1 or 3, R15) or ENGL 483 Writing Internship, 3 hours
ENGL 497 Senior Seminar in Writing, 3 hours
CMCR 140 Introduction to Communication Media, 3 hours
CMCR 301 Writing for Communication Media, 3 hours
CMCR 465 Communications Ethics and Responsibilities, 3 hours
CMPM 302 Reporting of Public Affairs, (3, R6)

6 hours selected from:
ENGL 306 Nonfiction Writing, 3 hours
ENGL 312 Grammar for Writing, 3 hours
CMPM 303 Advertising and Public Relation Writing, 3 hours
CMPM 304 Magazine and Feature Writing, 3 hours
CMPM 305 Sports Writing, 3 hours
CMPM 493 Selected Topics in Print Media, (3, R9)

To complete the program, a total of 38 hours is required, including a minor, second major, or other approved program and general electives. Students must take at least 32 hours at the junior-senior level at WCU in order to satisfy general university degree requirements.

Major in English, B.A. Degree

Literature Concentration

Liberal Studies, 42 hours

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

The major requires 39 hours as follows:
ENGL 231 The Interpretation of Literature 3 hours
ENGL 251 Survey of English Literature I 3 hours
ENGL 252 Survey of English Literature II 3 hours
ENGL 261 Survey of American Literature I 3 hours or
ENGL 262 Survey of American Literature II 3 hours
ENGL 498 Senior Seminar in Literature 3 hours

9 hours selected from:
ENGL 420 Chaucer and His Age, 3 hours
ENGL 431 Shakespeare and His Age, 3 hours
ENGL 440 Milton and His Age, 3 hours
ENGL 441 The Age of Pope, Swift, and Johnson, 3 hours
ENGL 450 Major American and British Writers, 9 hours
ENGL 451 Nineteenth-Century British Writers, 3 hours
(Only 3 hours of ENGL 450 may be applied to this category)

3 hours selected from:
ENGL 312 Grammar for Writing, 3 hours
ENGL 411 History of the English Language, 3 hours
ENGL 412 Modern English Structure, 3 hours
ENGL 415 Linguistics, 3 hours

3 hours selected from:
ENGL 365 African-American Writings, 3 hours
ENGL 367 Appalachian Literature, 3 hours
ENGL 464 Native American Literature, 3 hours
ENGL 470 Twentieth-Century Commonwealth Literature, 3 hours
ENGL 477 Literature and Gender, 3 hours

3 hours selected from:
ENGL 370 The Short Story, 3 hours
ENGL 390 The Bible as Literature, 3 hours
ENGL 421 Fairy Tale Literature, 3 hours
ENGL 455 The English Novel, 3 hours
ENGL 471 Modern Poetry, 3 hours
ENGL 472 Modern Fiction, 3 hours
ENGL 473 Modern Drama, 3 hours
ENGL 475 The American Novel, 3 hours

And 6 hours of junior-senior English courses

To complete the program, a total of 41 hours is required, including a minor, second major, or other approved program and general electives. Students must take at least 32 hours at the junior-senior level at WCU in order to satisfy general university degree requirements.

Major in English, B.A. Degree
Professional Writing Concentration

Liberal Studies. 42 hours

Program requirements, 9 hours minimum: MFL 231-232 or 240 and CIS 293 or CMPM 404.

The major requires 39 hours as follows:
ENGL 231 The Interpretation of Literature, 3 hours
ENGL 251 Survey of English Literature I, 3 hours
ENGL 252 Survey of English Literature II, 3 hours
ENGL 303 Introduction to Professional Writing, 3 hours
ENGL 307 Professional Editing and Publishing, 3 hours
ENGL 389 Cooperative Education: Professional Writing, 3 hours or ENGL 483 Writing Internship, 3 hours
ENGL 497 Senior Seminar in Writing, 3 hours
12 hours selected from:
ENGL 304 Writing for Electronic Environments, 3 hours
ENGL 305 Technical Writing, 3 hours
ENGL 306 Nonfiction Writing, 3 hours
ENGL 308 Fiction Writing, 3 hours
ENGL 309 Poetry Writing, 3 hours
ENGL 310 Screenwriting, 3 hours
ENGL 312 Grammar for Writing, 3 hours
ENGL 401 Writing for Careers, 3 hours
ENGL 405 Advanced Creative Writing, 3 hours
ENGL 493 Topics in Creative Writing, 3 hours
And 6 hours selected from junior-senior English literature courses.

To complete the program, a total of 38 hours is required, including a minor, second major, or other approved program and general electives. Students must take at least 32 hours at the junior-senior level at WCU in order to satisfy general university degree requirements.

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

Liberal Studies, 42 hours
Program requirements, 9 hours: MFL 231-232 or 240 and CMCR 250.

The major requires 39 hours as follows:
231 The Interpretation of Literature, 3 hours
251 Survey of English Literature I, 3 hours
252 Survey of English Literature II, 3 hours
261 Survey of American Literature I, 3 hours
262 Survey of American Literature II, 3 hours
278 Introduction to Film Studies, or 478 Film as Literature, 3 hours
312 Grammar for Writing, 3 hours
411 History of the English Language, 3 hours
414 Fundamentals of Teaching Composition, 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 (10 hours) are required to complete the program. Students must take at least 32 hours at the junior-senior level at WCU in order to satisfy general university degree requirements.

Students must maintain a minimum 2.75 GPA in the major, and no grade below a C (2.0) for any required course in the major will be accepted.

The Department of English offers the Minor in English, which is available to all majors except English.

**Minor in American Studies**
See requirements under Arts and Sciences Interdisciplinary Programs.

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

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

**Minor in English**

The minor requires 18 hours of English courses, exclusive of ENGL 300 and those approved for general education credit.

The following minors, also administered by the Department of English, are available to all majors, with the exception of some concentrations in English or Communications, as listed below.

**Minor in Film Studies**

The minor requires 18 hours, including ENGL 278 and ENGL 378, and 12 hours selected from the following courses: ENGL 310, 467, 468, 478, CMEM 351, 451 and PHIL 309. A course carrying repeat credit may be applied only **once** to the minor.

**Minor in Journalism**

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

**Minor in Literature**

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

**Minor in Professional Writing**

The minor requires 18 hours, including 12 hours selected from the following courses: ENGL 303, 304, 305, 306, 307, 308, 309, 312, 389, 401, 405, 483, 493, 497; and 6 hours from any English course, exclusive of ENGL 300 and those approved for general education credit. (Not open to those pursuing the B.A. in English with a concentration in professional writing.)

**GEOSCIENCES AND NATURAL RESOURCES MANAGEMENT**

*Lawrence G. Kolenbrander, Head*


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

Liberal Studies, 42 hours

Program requirements, 7 hours: GEOL 150; MATH 170 or ECON 235

The major requires 44-46 hours as follows:

**GEOGRAPHY CORE, 23 hours**

- 150 Environmental Geography, 3 hours
- 321 Geographic Information Systems, 3 hours
- 322 Cartography, 4 hours
- 324 Introduction to Remote Sensing, 4 hours
- 350 Economic Geography, 3 hours
- 440 Topics in Regional Geography, 3 hours
- 495 Senior Seminar in Geography, 3 hours

**CONCENTRATION (21-23 hours).** Students should develop a concentration within the major, selected from one of the following:

*Land Use Planning (23 hours):* GEOG 302, 305, 402, 460, 462, 464, and PSC 303.

It is strongly recommended that students selecting this concentration make
arrangements to complete at least one internship (GEOG 483) or Cooperative Education experience (GEOG 389).

*Environmental Geography (21 hours):* GEOG 300, 302, 305, 400, 402, and 440 or 441.

*International Studies (21 hours):* GEOG 402, 440 (6 hours), 444, PSC 331, 335; and HIST 317 or 411.

A concentration different from those listed may be developed in consultation with the advisor, subject to the approval of the department head.

**General electives (33-35 hours)** are required to complete the program.

At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.

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

**Liberal Studies, 42 hours**

Program requirements, 18 hours:

*Solid Earth and Environmental Concentrations:* MATH 145, 146, and CHEM 140; also, another Chemistry elective (200 or higher level) and Phys 130/230 or Phys 130/131 or 230/231.

*Interdisciplinary Studies Concentration:* MATH 130, 170, or MATH 145, 146, and CHEM 132 or 140; a chemistry elective (4 hrs) and another 200 level or higher science elective (4 hrs).

The major consists of a core (30-31 hours) and an area of concentration (24 hours) for a total of 54-55 hours. The core courses include:

GEOL 140 Investigations in Environmental Geology, 3 hours
GEOL 150 Methods in Geology, 4 hours
GEOL 155 Historical Geology, 4 hours
GEOL 250 Introduction to the Rock Forming Minerals, 2 hours
GEOL 305 Soils and Hydrology or GEOL/GEOG 302, Geomorphology, 4 hours
GEOL 355 Petrology, 2 hours
GEOL 371 Structural Geology, 4 hours
GEOL 422 Sedimentation and Stratigraphy, 4 hours

Capstone course such as a research project, senior thesis, senior research seminar, cooperative education, or internship (in consultation with advisor), 3 or 4 hours.

A concentration (24 hours) selected from one of the following areas. Electives must be chosen in consultation with the advisor.

**Solid Earth**

GEOL 350 Mineralogy II, 2 hours
GEOL 356 Advanced Petrology, 2 hours
MATH 153 Calculus I or MATH 170 Applied Statistics, 3 or 4 hours
Electives in geology (200 or higher level), science, or mathematics, 16 to 17 hours

**Environmental**

GEOL 405 Hydrogeology, 4 hours
MATH 153 Calculus I or MATH 170 Applied Statistics, 3 or 4 hours
Electives in geology (200 or higher level), sciences, or mathematics, 16 to 17 hours

**Interdisciplinary Studies**

Electives in geology (200 or higher level), sciences, or mathematics, 24 hours

Note: For students planning to pursue graduate work, it is recommended that the following courses be included in the above curriculum: Math 153 and 255, Phys 131 or 231, and Geology Summer Field course.

General electives, 13-14 hours.
At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.

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

Liberal Studies, 42 hours

Program requirements, 13 hours: CHEM 132; MATH 130, 170; MGT 300.

The major requires 62 hours, including 41 hours in core courses and a 21-hour concentration:

- BIOL 140 Principles of Biology I, 4 hours
- BIOL 141 Principles of Biology II, 4 hours
- BIOL 304 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
- NRM 150 Introduction to Natural Resources Management, 1 hour
- NRM 340 Natural Resources 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, NRM 351, 352, 451, 452.

*Water Resources:* BIOL 413, 414, 435, 476; CHEM 133, 330. NRM 460.

*Land Use Planning:* GEOG 320, 350, 460, 462, 464, and 6 hours at the junior-senior level in economics, management, and geography.

General electives (11 hours) are required to complete the program.

At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.

**Major in Science Education (Concentration in Geosciences), B.S.Ed. degree**

Liberal Studies, 42 hours

Program requirements, 30-32 hours:

- BIOL 140 Principles of Biology I, 4 hours
- BIOL 141 Principles of Biology II, 4 hours
- MATH 130 College of Algebra, 3 hours
- MATH 140 Introductory Calculus, 5 hours **OR** MATH 170 Applied Statistics, 3 hours
- PHYS 130 or 230, Introductory Physics I or General Physics I, 4 hours
- PHYS 131 or 231, Introductory Physics II or General Physics II, 4 hours
- CHEM 140 Advanced General Chemistry, 4 hours
- CHEM 232 Quantitative Analysis, 4 hours

The major requires 24-26 hours as follows:

- GEOL 150 Methods in Geology, 4 hours
- GEOL 155 Historical Geology, 4 hours
- GEOL 250 Rock Forming Minerals, 2 hours
- GEOL 305 Soils and Hydrology, 4 hours **OR** GEOL 302, Geomorphology, 4 hours
- GEOL 355 Petrology, 2 hours
- Geology electives (7-9 hours) at the junior-senior level

The professional education sequence (28 hours) for secondary and special subject teaching and 3 hours of general electives are required to complete the program.
Minor in Earth Sciences
The minor requires 18 hours, including GEOL 150; one other freshman-level geology course, GEOL 250; GEOG 150, 300 and 2-3 hours of geoscience electives above the freshman level.

Minor in Geology
The minor requires 21 hours, including GEOL 150; one other freshman-level geology course; GEOL 250, and 11-12 hours of geology electives above the freshman level.

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

DEPARTMENT OF HISTORY
James A. Lewis, Head

Major in History, B.A. Degree
Liberal Studies, 42 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 311, 313, 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 41 hours is required, including a minor, second major, or other approved program and general electives. At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.

Major in History, B.S. Degree
Liberal Studies, 42 hours
Program requirements, 3 hours: MATH 170.
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 311, 313, 411, 412, 413, 414, 416; 9 hours of upper-division U.S. and non-Western history, including a minimum of 3 hours of each.

To complete the program, a total of 44 hours is required, including a minor, second major, or other approved program and general electives. At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.
Minor in History

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

Interdisciplinary Minor in Appalachian Studies

See requirements under Arts and Sciences Interdisciplinary Programs.

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Charles Wallis, Acting Head


Major in Computer Science, B.S. Degree

Liberal Studies, 42 hours

Program requirements, 12 hours: 8 hours selected from one of the following groups: BIOL 140, 141 or CHEM 140, 232 or GEOL 150, 155 or PHYS 130, 131 or PHYS 230, 231; 4 hours selected from the above groups but in a different natural science than the first 8 hours.

The major requires 61 hours. Only grades of C (2.0) or higher in required computer science courses will satisfy requirements for the major. The following courses are required:

150 Problem Solving and Programming I, 4 hours
151 Problem Solving and Programming II, 4 hours
250 Introduction to Computer Systems, 3 hours
310 Discrete Structures, 3 hours
350 Introduction to Computer Organization, 3 hours
351 Data Structures, 3 hours
352 Organization of Programming Languages, 3 hours
360 Theory of Computation, 3 hours
363 Software Development, 3 hours
370 Operating Systems, 3 hours
465 Computer Networks, 3 hours
495 Capstone, 3 hours
MATH 153 Calculus I and MATH 255 Calculus II, 8 hours
MATH 254 Matrix Theory or MATH 262 Introduction to Linear Algebra, 3 hours
MATH 270 Statistical Methods I or MATH 370 Probability and Statistics I, 3 hours
9 additional hours of courses selected from CS 301, 303, 304, 320, 340, 361, 389, 393, 441, 443, 451, 452, 453, 460, 462, 463, 464, 480, and 493 (including at least 6 hours from courses at the 400 level).

13 additional hours of general electives completes the program of study.

Major in Mathematics, B.S. Degree

Liberal Studies, 42 hours

Program requirements, 15 hours: CS 150; PHYS 230, 231; One of BIOL 140, BIOL 141, CHEM 132, CHEM 140, GEOL 150, GEOL 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, 34 additional hours are required, including a second major, minor, or other approved program and at least 12 hours of general electives. In lieu of a second major or minor, students may choose to complete the professional education sequence and approved electives leading to teacher certification.

At least 32 hours taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.

Major in Mathematics, B.S.Ed. Degree

Liberal Studies, 42 hours

Program requirements, 11 hours: CS 130 or CS 150; and PHYS 230-231.

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

The professional education sequence (28 hours) for secondary and special subject teaching and 6 hours of general electives (5 hours at the junior-senior level) are required to complete the program.

Minor in Computer Science

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

Minor in Mathematics

The minor requires 20 hours, including MATH 153, 255, and 12 hours selected from: any mathematics courses numbered 250 or higher, CS 340.

Computer Education Endorsement

An endorsement in computer education (18 hours) can be obtained if the individual holds a license in another teaching area. A listing of the course requirements for the endorsement is available in the office of the dean of the College of Education and Allied Professions.

DEPARTMENT OF MODERN FOREIGN LANGUAGES

Terry L. Ballman, Head


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

Liberal Studies, 42 hours. It is strongly recommended that students who choose to major in a foreign language meet part of this requirement by taking a course in a different foreign language.
Each major requires 33 hours as follows:
231-232 or 240 Intermediate French, German, or Spanish I and II; or Intensive French, German, or Spanish II, 6 hours
301 French, German, or Spanish Composition, 3 hours
302 Conversational French, German, or Spanish, 3 hours
310 Introduction to French, German, or Spanish Prose and Poetry, 3 hours
321, 322 French or German, I or II: Spanish Civilization; or Latin American Civilization, 6 hours
331, 332 Survey of French or German Literature I, II, 6 hours; or 330 Masterpieces of Spanish Peninsular Literature and 333 Masterpieces of Spanish-American Literature, 6 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 53 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. Students must maintain a minimum 2.75 GPA in the major, and no grade below a C (2.0) for any required course in the major will be accepted.

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

Liberal Studies, 42 hours. It is strongly recommended that students who choose to major in a foreign language meet part of this requirement by taking a course in a different foreign language.

Each major requires 33 hours as follows:
231-232 or 240 Intermediate French, German, or Spanish I and II; or Intensive French, German, or Spanish II, 6 hours
301 French, German, or Spanish Composition, 3 hours
302 Conversational French, German, or Spanish, 3 hours
321, 322 French or German, I or II: Spanish Civilization; or Latin American Civilization, 6 hours
351 French, German, or Spanish Phonetics and General Linguistics, 3 hours
451 Advanced Grammar, 3 hours
452 Advanced Conversation, 3 hours
Literature electives (6 hours) selected from FREN 310, 331, 332; GERM 310, 331, 332; SPAN 310, 330, 333 in the major.

The professional education sequence (28 hours) for special subject teaching and general electives (22 hours), including at least 3 hours at the junior-senior level, and EDEL 312 are required to complete the program.

Students must maintain a 2.75 GPA in the major, and no grade below a C (2.0) for any required course in the major will be accepted.

**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. 303 does not count toward the minor.

**Native Speaker Policy**

Native speakers are encouraged to enroll in any of the following courses: FREN/GER/SPAN 321, 322, 330, 331, 332, 333, 351, 393, 451, 481, and all 400-level literature courses. Other courses are normally not open to native speakers except where required in degree programs. The department head may make exceptions on an individual basis.

**DEPARTMENT OF MUSIC**

Robert Kehrberg, Head

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

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

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

Liberal Studies, 42 hours

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

The major requires 40 hours as follows:

1. 152, 153 Aural Skills Laboratory I, II, 2 hours
2. 178 Beginning, Theoretical and Analytical Skills, 4 hours
3. 252 Aural Skills Lab III, 1 hour
4. 277, 278 Theory and Literature I, II, 6 hours
5. 350, 351 Music History I, II, 6 hours
6. 358 Performance Laboratory, 6 semesters
7. 428 or 429 Choral or Instrumental Conducting, 3 hours

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

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

Major ensemble, 6 hours (winds and percussion, minimum 1 hour marching band).

To complete the program, 40 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 420 or 425 (3 hours), 305 (1 hour), 405 (1 hour), and junior-senior level applied principal (8 hours); 27 elective hours to include 12 hours exclusive of music courses.

**Music Industry Option:** ACCT 161; MKT 301; CIS 251; BA 133; LAW 230; MGT 300; MUS 378; 9 hours in MUS 489; 10 hours electives.

Minor, second major, or approved program, 40 hours.

Cooperative education may not exceed 6 hours.

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

Liberal Studies, 42 hours

The major requires 58 hours, including a 33-hour core and 25 hours in general or instrumental music as follows:

1. 152, 153 Aural Skills Laboratory I, II, 2 hours
2. 168 String Class I, 1 hour
3. 169 Classroom Guitar Technique, 1 hour
4. 178 Beginning, Theoretical and Analytical Skills, 4 hours
5. 252 Aural Skills Lab III, 1 hour
6. 277, 278 Theory and Literature I, II, 6 hours
7. 283 Music Technology Class, 1 hour
8. 350, 351 Music History I, II, 6 hours
9. 358 Performance Laboratory, 6 semesters
10. 428 or 429 Choral or Instrumental Conducting, 3 hours
11. 470 Orchestration and Arranging, 2 hours

Major ensemble, 6 hours (winds and percussion minimum 2 hours marching band).

Concentration selected from: **General Music:** 258, 259, 279, 327, and 14 hours in one area selected from piano or organ or voice, including completion of the 442 level of proficiency in piano, the 446 level in
organ, or the 456 level in voice. Keyboard principals also complete 158 and 3 hours in the secondary keyboard instrument. Voice principals also complete 4 hours in piano.

Instrumental Music: 158, 270, 271, 272, 273, 274, 326; 0-4 hours in piano, piano class or 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 are required to complete the program.

Minor in Music

Precollege musical experience and formal training and permission of the head of the music department are required to enroll in the minor. The minor requires 22 hours, including 152, 153, 178, 277, 278 or 351; 4 hours of applied music in voice or an instrument; 4 hours in a major ensemble, 3 successful semesters of MUS 358 with a grade of "S", and 2 hours of electives.

ASSOCIATED AREA OF PHILOSOPHY AND RELIGION

Daryl L. Hale, Acting Department Head
J. McLachlan, N. Scott

Major in Philosophy, B.A. Degree

Liberal Studies, 42 hours

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

The major requires 30 hours. Only grades of C (2.0) or higher in philosophy courses will satisfy requirements for the major.

The following courses are required:

I. Humanities Cornerstones – 2 courses
   102 Western Moral Traditions, 3 hours
   230 Legal, Scientific, and Critical Reasoning, 3 hours

II. Systematic Historical Pillars – 3 courses
   *304 Justice, Power, & Human Nature in the Ancient Greek Polis, 3 hours
   305 God, Reason, & the Good in the Medieval World, 3 hours
   *306 Science, Reason, & Autonomy in the Enlightenment, 3 hours
   307 Liberty, System, and History in the Age of Revolutions or 308 Alienation, Technology, & Meaning in the Postmodern Age, 3 hours

III. Underpinnings of Academic Disciplines – 2 courses
    Electives selected from 310, 311, 312, 313

IV. Architects of Philosophical Traditions – 2 courses
    Electives selected from 330, 333, 341, and 393 (Topics in Philosophy)

V. Keystone Seminar – 1 course
    493 Seminar in Philosophy, 3 hours

*Required courses in the historical sequence series

Philosophy electives at the junior-senior level, 15 hours

To complete the program, a total of 50 hours is required, including a minor, second major, or other approved program, and at least 12 hours of general electives. At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.
Minor in Philosophy
The minor requires 18 hours, including 102, 230, and 12 hours of electives selected from junior-senior philosophy/religion courses, or PSC 345 and 346.

Minor in Religious Studies
See Arts and Sciences Interdisciplinary Programs

DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC AFFAIRS
Charles J. Stevens, Head
Gordon Mercer, Director of M.P.A.
R. Collings, A. Hayes, H. G. Knotts, C. D. Livingston, B. Wright

Major in Political Science, B.A. Degree
Liberal Studies, 42 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)
346 Modern Political Thought, 3 hours
Junior-senior electives, 9 hours (no more than 6 hours can be applied to cooperative
education or internship)
Concentration (9 hours) selected from:
International Relations: 332, 333, 334, 335
Public Administration: 304; 6 hours selected from 307, 309, and 421
General Political Science: Electives at the junior-senior level.

To complete the program, a total of 47 hours is required, including a minor, second major,
or other approved program. At least 32 hours taken at WCU must be at the junior-senior level
to meet one of the general university requirements.

Major in Political Science, 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) is required; a foreign language is not required;
and electives are increased by 3 hours.

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

SOCIAL SCIENCE PROGRAMS
Elizabeth Gillespie McRae, Coordinator

Major in Social Sciences, B.A. Degree
Liberal Studies, 42 hours
Program requirements, 6 hours: MFL 231-232 or 240.

The major requires 39 hours as follows:
HIST 221, 222 European History, 6 hours
Two of the following four groups: ECON 231-232, GEOG 150-350, PSC 231-315, SOC 231-ANTH 260.
Advanced electives (21 hours) including at least 6 hours in each of three areas: American history, anthropology, economics, foreign history, geography, political science, sociology.
To complete the program, a total of 41 hours is required, including a minor, second major, or other approved program. At least 32 hours of the courses taken at WCU must be at the junior-senior level to meet one of the general university degree requirements.

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

All of the requirements for the degree are the same as those listed for the bachelor of arts program except that MATH 170 (3 hours) is required; a foreign language is not required; and electives are increased by 3 hours.

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

Liberal Studies, 42 hours

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

The major requires 48 hours as follows:
GEOG 350 Economic Geography or GEOG 444 Political 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 (21 hours) in two social sciences selected so that 12-15 hours are taken in one discipline and 6-9 hours in another.
The professional education sequence (28 hours) for secondary and special subject teaching and general electives (1 hour) are required to complete the program.

Students must maintain a minimum 2.75 GPA in the major, and no grade below a C (2.0) for any required course in the major will be accepted.

**DEPARTMENT OF SOCIAL WORK**

*Terry L. Gibson, Head*

*J. Dickinson, J. Dulworth, M. Huff*

The Social Work Program is accredited by the Council on Social Work Education and its principal educational goal is to prepare students for beginning generalist social work practice.

**Major In Social Work, B.S. Degree**

Liberal Studies, 42 hours

Program requirements, 13 hours: BIOL 104 (4 hours including lab), SOC 231, PSY 150, PSC 231.

The major requires 51 hours. Only grades of C (2.0) or higher in required and elective social work courses and C- (1.67) in program requirements will satisfy requirements for the major.

The following courses are required:
151 Introduction to Social Work, 3 hours
251 Social Welfare Policy and Programs, 3 hours
253 Foundations of Social Work Practice, 3 hours
334 Human Behavior and the Social Environment I, 3 hours
335 Social Work Research and Evaluation, 3 hours
354 Human Behavior and the Social Environment II, 3 hours
362 Direct Practice: Individuals and Families, 3 hours
364 Community Practice, 3 hours
486 Field Practicum, 12 hours
496 Field Practicum Seminar, 3 hours

12 hours of junior-senior level social work/sociology electives. 12 hours chosen from social work courses, or 9 hours chosen from social work courses and 3 hours chosen from sociology or social work courses.

General electives (22 hours) are required to complete the program.

Declaration of a major in social work does not guarantee admission to the program. Students are eligible to apply for admission when they have completed 35 credit hours which can be applied toward a baccalaureate degree at WCU; and, in addition, have completed SOCW 151 and SOCW 251 (or be concurrently enrolled in SOCW 251). However, students must apply for admission when they have completed 15 hours of social work courses. Students must maintain an overall 2.25 GPA each semester after admission in order to remain in the program. See the Department of Social Work's "Admission and Termination Policies" for detailed information.
COLLEGE OF BUSINESS

Ronald E. Shiffler, Dean
N. Leroy Kauffman, Associate Dean

Vision. The College of Business will enhance its regional reputation for distinctive competencies in management education for the information age.

Mission. The College of Business mission is to facilitate student learning for a global business environment through teaching, our primary responsibility. Our curricula, which include a focused set of undergraduate degrees and graduate professional programs, provide students with technological expertise, discipline-based knowledge, and career-enhancing skills.

We engage primarily in applied and instructional development research and we provide service to our campus, professional, and regional constituencies.

A set of shared values and the guiding principles of pursuing excellence with a personal touch govern our actions.

Programs of Study Include: Bachelor of Science in Business Administration, Bachelor of Science in International Business, Master of Accountancy, Master of Business Administration and Master of Project Management. The Master of Business Administration is offered in Cullowhee and Asheville, the Master of Accountancy is offered in Asheville, and the Master of Project Management is web-based, available internationally.

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

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

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

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

The Bachelor of Science in Business Administration Degree. This degree program requires the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Liberal Studies</td>
<td>42 hours</td>
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<tr>
<td>Foundation of Knowledge for Business</td>
<td>45 hours</td>
</tr>
<tr>
<td>Major Program of Study in Business</td>
<td>21 hours</td>
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<tr>
<td>Elective Courses</td>
<td>12 hours</td>
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Minimum requirements for B.S.B.A. Degree 120 hours

A minimum GPA of 2.0 is required in the major for graduation. The major comprises 45 hours in Foundation of Knowledge and 21 hours in the Major Program of Study for a total of 66 hours.
Foundation of Knowledge for Business courses are:

- ACCT 251, 252 Accounting Principles I, II, 6 hours
- BA 404 Strategic Management, 3 hours
- CIS 251 Management Information Systems, 3 hours
- ECON 231, 232 Microeconomics and Macroeconomics, 6 hours
- ECON 235 Statistics, 3 hours
- FIN 305 Financial Management, 3 hours
- LAW 230 Legal Environment of Business, 3 hours
- MATH 135 Statistics, Functions, and Rates of Change, 3 hours
- MGT 300 Introduction to Management, 3 hours
- MGT 305 Quantitative Business Analysis, 3 hours
- MGT 306 Behavioral Science in Organizations, 3 hours
- MKT 301 Principles of Marketing, 3 hours
- CIS 304 Business Communications, 3 hours

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

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

The B.S. degree program in international business will remain at 125 hours because of multiple college instructional agreements.

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

DEPARTMENT OF ACCOUNTANCY

Philip L. Little, Head

J. Beegle, D. Coffee, J. Gould, E. Jones, L. Kauffman, R. Lirely, P. Swanger

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

A student may be admitted to the B.S.B.A. degree program with a major in accounting after completing a minimum of 30 hours at Western Carolina University with a 2.2 GPA on hours attempted. Applicants transferring directly from another accredited institution must have a 2.2 GPA on all work attempted at the previous institution. Transfer students who complete courses at the university before applying for admission to the accounting program must have a 2.2 GPA on hours attempted. If less than 30 hours have been attempted at Western, a 2.2 GPA on hours attempted both at Western and at other institutions is required.

Liberal Studies, 42 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major:
- 275, 352 Intermediate Accounting I, II, 6 hours
- 355 Income Tax I, 3 hours
- 356 Cost Accounting I, 3 hours
- Electives (Choose any 3): 301, Financial Statement Analysis; 361, Not-for-Profit Accounting; 365, Accounting Information Systems; 454, Auditing I; 467, Controllership.

General electives 12 hours.
DEPARTMENT OF BUSINESS ADMINISTRATION, LAW, AND MARKETING

Levon E. Wilson, Head


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

Liberal Studies, 42 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major:
LAW 331, 332 Business Transactions I, II, 6 hours
LAW 415 Legal Aspects of Business Management, 3 hours
Electives (12 hours) selected from the following:
   LAW 302, 303, 306, 315, 320, 393, 402, 405, 406, 410, 412, 440, 480, 483, 484, 485 (with no more than a total of 3 hours from LAW 483-485).

General electives, 12 hours.

Minor in Business Law

The minor, open to nonbusiness majors only, requires 18 hours, including Law 230, and 15 hours from the following: 302, 303, 315, 320, 331, 332, 402, 403, 405, 410, 412, 415, or 440.

Major in Marketing following the Contemporary Concentration, B.S.B.A. Degree

Liberal Studies, 42 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major:
302 Marketing Communications, 3 hours
303 Marketing Research, 3 hours
304 Consumer Behavior, 3 hours
475 Marketing Strategy and Management, 3 hours
Marketing electives (9 hours) selected from other junior-senior level marketing courses

General electives, 12 hours.

*A student majoring in marketing cannot pass a marketing course with a grade below "C-minus" and still have that course count toward satisfying the marketing major requirement.

*Minor in Marketing following the Contemporary Concentration

The minor, which is open to nonbusiness majors only, requires 18 hours including MKT 301, MKT 475 and 12 hours of electives selected from other junior-senior level marketing courses.

Major in Entrepreneurship, B. S. B. A. degree

Liberal Studies, 42 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major:
BA 250 Innovation and Creativity, 3 hours
BA 301  New Venture Creation, 3 hours
BA 350  New Venture Growth, 3 hours
BA 475  Entrepreneurial Seminar, 3 hours
Electives, 9 hours, selected from the College of Business offerings with the approval of the advisor.

General electives, 12 hours

DEPARTMENT OF BUSINESS COMPUTER INFORMATION SYSTEMS
Jennie L. Hunter, Head

D. Banerjee, J. Coffey, D. Clapper, L. Heinrichs, J. McCreary, R. Noel, W. Perry, M. Rose, G. Williams

Major in Computer Information Systems, B.S.B.A. Degree
Liberal Studies, 42 hours
Foundation of Knowledge for Business, 45 hours
The following 21 hours in the major:
235  Foundations of Information Technology, 3 hours
240  Business Applications Development I, 3 hours
335  Enterprise Technology Management, 3 hours
340  Business Applications Development II, 3 hours
453  Data Base Management Systems, 3 hours
455  Computer Information Systems Analysis and Design, 3 hours
465  Applications Development III, 3 hours

General electives, 12 hours.

DEPARTMENT OF ECONOMICS, FINANCE, AND INTERNATIONAL BUSINESS
Susan B. Kask, Acting Department Head

Major in Economics, B.S.B.A. Degree
Liberal Studies, 42 hours
Foundation of Knowledge for Business, 45 hours
The following 21 hours in one of the two following concentrations:
Business Economics: 302, 303, 304, and 12 hours in junior-senior economics electives approved by the adviser.
Entrepreneurial Studies: LAW 331; MGT 401; MKT 403, 404; CIS 466; FIN 409; approved FIN or ECON elective.

General electives, 12 hours.

Major in Finance, B.S.B.A. Degree
Liberal Studies, 42 hours
Foundation of Knowledge for Business, 45 hours
The following 21 hours in one of the two following concentrations:

**Corporate Finance:** ECON 303; FIN 405, 495; ACCT 301; 9 hours of electives selected from FIN 325, 335, 406, 407, 409, 483, 484, 485; ACCT 275, 352, 356; ECON 302, ECON 304.

**Financial Planning:** ACCT 355, FIN 310, 406, 410, 496; FIN 335 or ECON 303; 3 hours of electives selected from: ACCT 301, FIN 389 or 483, MKT 306 or MKT 310, FIN 302, FIN 335 or ECON 303, COUN 430.

General electives, 12 hours.

**Second Major in Economics**
The second major, which is open only to nonbusiness majors, requires 33 hours as follows:
231 Introductory Microeconomics and Social Issues, 3 hours
232 Introductory Macroeconomics and Social Issues, 3 hours
235 Statistics, 3 hours
303 Money, Financial Markets, and Economic Policy, 3 hours
ACCT 251, 252 Accounting Principles I, II, 6 hours
MGT 300 Introduction to Management, 3 hours
LAW 230 Legal Environment of Business, 3 hours
Economics electives (9 hours) at the junior-senior level

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

**Major in International Business, B. S. Degree**
Liberal studies, 42 hours

Foundation of Knowledge for Business, 45 hours

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

The following 21 hours in the major:
ECON 309 International Economics, 3 hours
MGT 301 International Management, 3 hours
PSC 331 International Politics, 3 hours
FIN 407 International Finance OR
MKT 407, International Marketing, 3 hours
Economics electives (9 hours) selected from at least two disciplines listed below:

ANTH 327 Economy and Society, 3 hours
BA 304 Business Communications in a Multicultural Environment, 3 hours
ECON 406 International Economic Development, 3 hours
GEOG 350 Economic Geography, 3 hours
GEOG 440 Topics in Regional Geography, 3 hours
GEOG 444 Political Geography, 3 hours
HIST 317 History of 20th-Century International Relations, 3 hours
HIST 416 Europe in the 20th-Century, 3 hours
IBUS 480 Independent Study, 3 hours
IBUS 483 Internship in International Business, 3 hours
IBUS 493 Topics in International Business, 3 hours
LAW 320 Multinational Corporate Law, 3 hours
MFL 321 or 322, French, German, or Spanish Civilization, 3 hours
MKT 407 International Marketing, 3 hours OR
FIN 407 International Finance, 3 hours
PSC 315 European Political Systems, 3 hours
PSC 316 Politics of Developing Areas, 3 hours
PSC 332 International Organization, 3 hours
PSC 333 International Law, 3 hours
PSC 335 Problems in World Politics, 3 hours
PSC 436 Dynamics of World Order, 3 hours
SOC 434 Regional and Societal Development, 3 hours
General electives (11 hours) including at least 9 hours outside the College of Business.

The minimum GPA applies to the 66 hours which includes the Foundation of Knowledge for Business and major.

DEPARTMENT OF MANAGEMENT
Jerry Kinard, Head

J. Adams, W. Kane, T. Kinnear, B. Little, G. Mechling, S. Owens, R. Routhieaux, R. Shiffler,
M. Smith, C. Wright

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

Liberal Studies, 42 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major:
304 Human Resource Management, 3 hours
401 Small Business Management, 3 hours
402 Production and Operations Management, 3 hours
495 Seminar in Management, 3 hours
Electives (9 hours) selected from 301, 302, 400, 405, and 407.

General electives, 12 hours.

Minor in Management

The minor, open to nonbusiness majors only, requires 18 hours including MGT 300, 304,
306, and 9 hours of approved management electives.

DEPARTMENT OF PROFESSIONAL SELLING
Jeffrey E. Lewin, Acting Department Head

J. Busbin, J. Johnson

Major in Marketing following the Professional Selling Concentration, B.S.B.A. Degree

Liberal Studies, 42 hours

Foundation of Knowledge for Business, 45 hours

The following 21 hours in the major:
306 Introduction to Professional Selling, 3 hours
310 Consultative Selling, 3 hours
409 Relationship Marketing and Negotiation, 3 hours
410 Advanced Professional Selling, 3 hours
420 Sales Management, 3 hours
Marketing electives (6 hours) selected from other junior-senior level marketing courses.

General electives (12 hours).

*A student majoring in marketing cannot pass a marketing course with a grade below "C-
minus" and still have that course count toward satisfying the marketing major requirement.
*Minor in Marketing following the Professional Selling Concentration*

The minor, which is open to nonbusiness majors only, requires 18 hours including MKT 306, 310, 409, 410, 420, and 3 hours of electives selected from other junior-senior level marketing courses.

*A student minoring in marketing cannot pass a marketing course with a grade below “C-minus” and still have that course count toward satisfying the marketing minor requirement. Depending on the electives selected, course prerequisites may add additional hours. Please check the catalog description for specific requirements.*
The College of Education and Allied Professions seeks to prepare professional personnel for the schools and colleges of the state and region and for other educational and service agencies. It coordinates all teacher education curricula at the university and provides services to individuals, schools, and regional educational and professional agencies. It undertakes continuous evaluation to assure curricula and professional services of high quality and coordinates the screening, selection, and counseling of students pursuing programs of study in the school.

The Bachelor of Science and Bachelor of Science in Education degrees are awarded upon completion of the undergraduate programs offered in the college. The Bachelor of Science degree is awarded in psychology, sport management, recreational therapy, and parks and recreation management. The Bachelor of Science in Education degree is normally awarded to those completing a teacher education program. Students may pursue programs leading to the Bachelor of Arts or Bachelor of Science degrees simultaneously with a program in teacher education but must fulfill all requirements of an approved teacher education program. An endorsement in computer education (18 hours) can be obtained if the individual holds a license in another teaching area.

The Teacher Education Program. Admission and retention policies in teacher education programs are based on the standards and guidelines of the State of North Carolina and the National Council for Accreditation of Teacher Education (NCATE). Approved institutions must have established procedures for implementing decisions regarding admission to, and retention in, teacher education programs. The state and NCATE guidelines require continuous evaluation of students admitted to teacher education programs and states that those found unlikely to succeed as teachers should be withdrawn.

Disciplinary Focus Area. A disciplinary focus area is a twenty-four hour course of study in an academic discipline required of education students enrolled in a B.S.Ed. program in elementary, middle grades, physical education, or special education. The disciplinary focus areas available are the following: anthropology, art, biology, communication training and development, economics, English, French, geography, geology, German, health promotion and wellness, history, mathematics, natural science, philosophy, physics, political science, psychology, sociology, Spanish, and theatre. A disciplinary focus area declaration form must be completed and filed in the dean’s office.

DISCIPLINARY FOCUS AREAS (24 HOURS MUST BE COMPLETED FOR EACH AREA)

Please select one of the following:

1. ANTHROPOLOGY (Total hours: 24)
   Required courses: ANTH 250, 260.
   Additional courses: Select 18 additional hours from upper level anthropology courses.

2. ART (Total hours: 24)
   Required courses: ART 131, 132, 136, 137, 142.
   Additional courses: Select 9 studio hours (courses from no more than two studio areas) in art.

3. BIOLOGY (Total hours: 24)
   Required courses: BIOL 140, 141, 304, 305; CHEM 132, 133.
   Additional courses: Select 2 hours from BIOL 134, 291, 292, 311, 315, 493, or any other 300- or 400-level biology course for which the student has the prerequisites and permission of the instructor.
4. **COMMUNICATION TRAINING AND DEVELOPMENT** (Total hours: 24)  
   Required courses: CMCR 140, 150, 250.  

5. **ECONOMICS** (Total hours: 24)  
   Required courses: ECON 231, 232, 235; MGT 300; FIN 305.  
   Additional courses: Select 3 upper-level economics courses to total 9 hours.

6. **ENGLISH** (Total hours: 24)  
   Required courses: ENGL 231; ENGL 251; either ENGL 261 or 262; ENGL 312; ENGL 414; ENGL 416.  
   Additional courses: Select 6 hours from ENGL 261 or 262 (whichever not taken above), ENGL 252, 365, 367, 421, 464, 475, either 278 or 478, 496.

7. **FRENCH** (Total hours: 24)  
   Required courses: FREN 132 or equivalent; FREN 231 & 232 or FREN 240, or equivalent; FREN 301 and 302.  
   Additional courses: Select 9 additional hours from upper level FRENCH courses.

8. **GEOGRAPHY** (Total hours: 24)  
   Required courses: GEOG 150, 350.  
   Additional courses: Select 6 hours from regional topics courses numbered GEOG 440; twelve hours from GEOG 300, 302, 320, 400, 402, 444, 462.

9. **GEOLOGY** (Total hours: 24)  
   Required courses: GEOL 150; and one other freshman-level geology course.  
   Additional courses: Select 17 hours from any 200-level or higher geology course.

10. **GERMAN** (Total hours: 24)  
    Required courses: GER 132 or equivalent; GER 231 & 232 or GER 240, or equivalent; GER 301 and 302.  
    Additional courses: Select 9 additional hours from upper level German courses.

11. **HEALTH PROMOTION AND WELLNESS** (Total hours: 24)  
    Required courses: HEAL 305, 312, HSCC 260, ND 330, and PSY 250.  
    Additional courses: Select 9 hours from SM 213, 313, PSY 441, BIOL 313, and HSCC 231.

12. **HISTORY** (Total hours: 24)  
    Required courses: HIST 221, 222, 231, 232.  
    Additional courses: Select 12 hours of upper-division history courses except the following: HIST 389, 473, 475, 483, 484, 485.  
    NOTE: HIST 221 and 231 are offered only in the fall; HIST 222 and 232 are offered only in the spring.

13. **MATHEMATICS** (Total hours: 24)  
    Required courses: MATH 145, 146, 170, 230, 231, 260; and MATH 140 or 153.  
    Additional courses: Select 1 course from MATH 255, 270; CS 130, 141.

14. **NATURAL SCIENCE** (Total hours: 24)  
    Required courses: BIOL 140, GEOL 150, PHYS 130, CHEM 132.  
    Additional courses: Select 8 hours from two of the following courses: AST 101, BIOL 141, GEOL 155, PHYS 131, CHEM 133 or CHEM 140, GEOL 160.

15. **PHILOSOPHY** (Total hours: 24)  
    Additional courses: Select 12 hours of philosophy courses at the junior-senior level with no more than 3 hours from PHIL 305, 308.
16. POLITICAL SCIENCE (Total hours: 24)
   Required courses: PSC 231.
   Additional courses: Select 12 hours from PSC 302, 303, 316, 318, 331, 332; 9 hours from PSC 304, 305, 306, 310, 319, 333, 334, 335, 336, 407, 421.

17. PHYSICS (Total hours: 24)
   Required courses: PHYS 130, 131, 150; AST 101; MATH 140 (Lab is required for PHYS 130, 131, and AST 101.)
   Additional courses: Select 6 hours from any 300-level or higher physics course.

18. PSYCHOLOGY (Total hours: 24)
   Required courses: PSY 150, 251 (or equivalent), 252 (or equivalent).
   Additional courses: Select 3 hours from PSY 310, 313, 331, 333, 360; 3 hours from PSY 440, 444, 448, 455; 3 hours from PSY 363, 430, 441, 470, 474; 6 hours of psychology electives (excluding PSY 320 and PSY 321).
   NOTE: PSY 252 is offered on TR during one semester and on MW during the next semester. PSY 363 is offered infrequently. PSY 455 is offered only one time each year. Students are encouraged to take PSY 389, 480 and/or 482-485 as psychology electives.

19. SOCIOLOGY (Total hours: 24)
   Required courses: SOC 231, 385.
   Additional courses: Select 18 hours from any 200-level and above sociology course.

20. SPANISH (Total hours: 24)
   Required courses: SPAN 132 or equivalent; SPAN 231 & 232 or SPAN 240, or equivalent; SPAN 301 and 302.
   Additional courses: Select 9 additional hours from upper level Spanish courses.

21. THEATRE (Total hours: 24)
   Required courses: CMTA 131, 140, 231, 300 or 301, 331, 340, 350, 400 or 401.

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 student’s major department and by the Teacher Education Council. The applicant’s fitness for teaching in the chosen area is determined on the basis of demonstrated academic ability and other personal characteristics conducive to effective teaching. A student may be considered suitable in one area and unsuitable in another. Students with speech defects that will interfere with successful teaching may be required to take corrective therapy.

Students who plan to receive a degree in education or a license through Western Carolina University must apply for and be officially admitted to a teacher education program. Students should apply for admission to teacher education during the semester in which they are enrolled in EDCI 231 (BK 260 for B-K majors), a course that is prerequisite to all other courses in the professional education sequence. Application should be made during the advisement and preregistration weeks of the semester. Application forms are available in Killian Building, Room 228. Students must complete all requirements for admission to teacher education prior to earning 90 semester hours. The only course in the professional education sequence that may be taken before being fully admitted to teacher education is EDCI 231 (BK 260 for B-K majors).

Admission criteria: All requirements for admission to teacher education should be met by the beginning of the semester following the semester in which the student submitted the application. The following criteria are minimal requirements for admission:

1. completed at least 30 hours:
2. earned a C (2.0) or higher grade in ENGL 101 and 102. If a student transfers ENGL 102, the student is required to pass the English Proficiency Test. If the student fails the English Proficiency Test, the student is required to earn a grade of C (2.0) or higher in ENGL 300.
3. earned (and then maintain) a minimum cumulative GPA of 2.5 on hours attempted at WCU; students with a major in Elementary or Middle Grades Education must earn (and
then maintain) a minimum cumulative GPA of 2.75 on hours attempted at WCU:

4. achieved the minimum required scores on the PPST (reading, writing, mathematics). Students should register to take these tests during the first two weeks of the semester in which they apply for admission to teacher education;

5. completed a personal interview and received a satisfactory evaluation from the Professional Education Interview Panel. Students should register for the interview during the first two weeks of the semester in which they apply for admission to teacher education;

6. taken the Technology Diagnostic (students should take this when they are enrolled in EDCI 231 or before);

7. submitted the application for Admission to Teacher Education.

Applicants already holding non-teacher education degrees must meet all of the above requirements except they are not required to take the PPST. They must have had a minimum cumulative GPA of 2.5 (2.75 for Elementary and Middle Grades Education) at the time of graduation. Applicants with non-teaching degrees from accredited institutions without cumulative GAP of at least 2.5 have two options:

1) The student is eligible to apply for admission to a licensure-only or a second degree program no sooner than three calendar days after receipt of the baccalaureate degree.

Or

2) The student is eligible to apply for passing scores on Praxis I tests and one of the following:

   a. A GPA of 3.0 in the major field of study,

   b. A GPA of 3.0 on all work completed in the senior year, or

   c. A GPA of 3.0 on a minimum of 15 semester hours of course work (relative to licensure) completed during the preceding five years.

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. Applicants with a record of legal offenses may not be eligible for admission to teacher education.

Applications for admission to teacher education are considered and acted upon by the Teacher Education Council.

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 2.5 on hours attempted; (2) behavior which adheres to the code of ethics of the profession; and (3) satisfactory participation in the required professional laboratory program that is prerequisite to student teaching. An evaluation of each field experience assignment will become a part of the student’s professional record.

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

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

Communication Disorders, 9 hours: EDCI 231; PSY 320 or 322, 321.
Elementary and Middle Grades, 23 hours: EDCI 231; PSY 320, 321; SPED 335; EDEL 490, 495.
Special Education, 21 hours: EDCT 231; PSY 320 or 322, 321; SPED 490, 495.
Secondary and Special Subject Teaching, 28 hours: EDCI 231; PSY 320 or 322, 321; SPED 335; EDRD 323; *Methods, EDSE 490, 495.

*Students majoring in biology, social sciences, take EDSE 322. Other students take the special methods course offered in their major department.

Field Experience Requirement. The teacher education program requires field experiences in conjunction with several courses in addition to the student-teaching requirement. Students are expected to make their own arrangements for transportation and housing and absorb the costs related to field experiences and student teaching. Each program has different requirements, and students should discuss costs with the program head prior to applying for admission to the teacher education program.

Admission to Student Teaching. Students apply to the director of field experiences early in the semester prior to the semester in which student teaching is to be done. The requirements for admission to student teaching are: (1) enrollment in the professional education sequence for at least two semesters; (2) completion of at least ninety hours in a teacher education curriculum; (3) one term in residence; (4) a GPA of 2.5 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; (9) completion of a post test in areas of nonproficiency as identified on the Technology Diagnostic. Student teaching assignments are made only in school systems within the WCU service area.

Continuation in Student Teaching. To continue in student teaching, students must maintain satisfactory professional conduct and adhere to the policies and regulations of the school to which they are assigned. When recommended by the director of field experiences and approved by the dean, students failing to perform at a satisfactory level may be removed from student teaching.

Requirements for Teacher Licensure. To be eligible for teacher licensure, a student must (1) complete one of the approved teacher-education programs; (2) make a minimum grade of C (2.0) in student teaching; (3) receive a public school recommendation indicating that student teaching was successful; (4) successfully complete the technology portfolio; (5) complete applications for licensure and file them with the dean of the College of Education and Allied Professions; (6) receive a recommendation from the head of the department of the teaching major; (7) achieve the minimum score on the PRAXIS Tests; (8) receive a professional recommendation for Class A licensure by the dean of the College of Education and Allied Professions; (9) pay the fee required by the State Board of Education for the issuance of a teacher license.

North Carolina Teaching Fellows. North Carolina Teaching Fellows must complete requirements in addition to those for regular teacher education students.

DEPARTMENT OF EDUCATIONAL LEADERSHIP AND FOUNDATIONS
Penelope S. Smith, 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 licensure. Consult your adviser or department head.

DEPARTMENT OF ELEMENTARY AND MIDDLE GRADES EDUCATION

Lester L. Laminack, Head


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

Liberal Studies, 42 hours

The major requires 36 hours as follows:

- EDEL 303 Literature for Children and Youth, 3 hours
- EDEL 312 Elementary School/Methods and Curriculum, 3 hours
- EDEL 315 Elementary/Middle Grades Communication Skills, 3 hours
- EDEL 316 Elementary/Middle Grades Science, 3 hours
- EDEL 317 Elementary/Middle Grades Social Studies, 3 hours
- EDEL 318 Elementary/Middle Grades Mathematics, 3 hours
- EDEL 466 Computers in Education, 3 hours
- EDRD 334 Reading Instruction in the Elementary School, 3 hours
- EDRD 474 Practicum in Teaching Reading, 3 hours
- PE 360 Skills in Promoting Healthful Living, 1 hour
- MATH 230 Theory of Arithmetic I, 3 hours
- MATH 231 Theory of Arithmetic II, 3 hours
- MUS 301 Basic Skills, 1 hour
- ART 363 Art for Children, 1 hour

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, 26 hours.
3. No grade lower than C on all program requirements including all EDEL, EDMG, and EDRD courses will be accepted for graduation.

Major in Middle Grades Education, B.S.Ed. Degree

Liberal Studies, 42 hours

The major requires 15 hours in core courses as follows:

- EDMG 310 Middle School Child and Curriculum, 3 hours
- EDEL 315 Elementary/Middle Grades Communication Skills, 3 hours
- EDEL 466 Computers in Education, 3 hours
- EDRD 443 Middle Grades Reading, 3 hours
- EDRD 474 Practicum in Teaching Reading, 3 hours
In order to complete the program, the following are required:
1. The completion of an approved disciplinary focus area (24 hours);
2. Two concentrations of at least 18 hours, including the appropriate 3-hour methods course, in mathematics and science or social studies and language arts. Work completed in the disciplinary focus area may be counted toward one concentration.
3. The professional education sequence (26 hours) for middle grades education and an elective (0-3 hours).
4. No grade lower than C on all program requirements including all EDEL, EDMG, and EDRD courses and courses in the middle grades areas of licensure will be accepted for graduation.

Reading (K-12) Certification Track
Certification in reading may be earned by students holding or eligible for certification in Elementary Education or Middle Grades Education. The program requires 19 semester hours including EDEL 303; EDEL 467; EDRD 334; EDRD 443; EDRD 453; and EDRD 474. Students holding or eligible for certification in other areas may also obtain certification in reading. For information contact the head of the Department of Elementary and Middle Grades Education.

DEPARTMENT OF HEALTH AND HUMAN PERFORMANCE
David Claxton, Head

Major in Physical Education, B.S.Ed. Degree
Liberal Studies, 42 hours
The major requires 34 hours as follows:
HEAL 250 First Aid and Safety Education, 2 hours
PE 251 Dance Dynamics, 3 hours
PE 255 Fitness, Wellness and Conditioning Theory and Practice, 2 hours
PE 264 Skill Acquisition, 1 hour
PE 311 Measurement and Evaluation, 2 hours
PE 312 Foundations in Health and Physical Education, 3 hours
PE 335 Anatomy and Physiology, 3 hours
PE 345 Physical Education for Children, 3 hours
PE 353 Methods and Teaching Analysis of Team and Individual Sports, 3 hours
PE 405 Outdoor Leisure Pursuits, 1 hour
PE 423 Kinesiology, 3 hours
PE 424 Physical Education for the Exceptional Child, 2 hours
PE 425 Exercise Physiology, 3 hours
PE 435 Motor Behavior, 3 hours

In order to complete the program, the following are required:
The professional education sequence (28 hours) for secondary and special subject teaching. A disciplinary focus area of 24 hours. A grade of C or better in all major classes including PE 325 Physical Education Curriculum and Methods (Departmental Methods course included the Professional Education Sequence). All majors must be active in a varsity sport, to include athletic training or managing, or serve as an intramural assistant for two full semesters and complete 50 hours of community service prior to student teaching.

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 (individual faculty members will include this as part of professional assignments in certain classes, such as PE 312, 325, 345, and 353).
Major in Parks and Recreation Management, B.S. Degree

Liberal Studies. 42 hours

Program requirements, 11-12 hours: HEAL 250 or 255; MATH 170; CIS 251; SOC 231.

The major requires 52 hours as follows:
PRM 150 Career Opportunities in Parks and Recreation Management, 1 hour
PRM 250 Foundations of Parks and Recreation Management, 3 hours
PRM 254 Intro. to Outdoor Pursuits Education (w/lab), 3 hours
PRM 270 Leadership and Group Dynamics in Recreation, 3 hours
PRM 361 Prog. Planning and Eval. in Parks and Recreation Management, 3 hours
PRM 370 Internship Orientation, 1 hour
PRM 383 Internship in Parks and Recreation Management (mini-internships) (1. R3 hours)
PRM 380 Entrepreneurship and Commercial Recreation, 3 hours
PRM 433 Outdoor Recreation, 3 hours
PRM 461 Mgt. and Administration of Parks and Recreation Management Services, 3 hours
PRM 480 Independent Study, 3 hours
PRM 483 Internship in Parks and Recreation Management, 3 hours
PRM 495 Senior Seminar in Parks and Recreation Management, 1 hour
SM 435 Events and Facilities Management, 3 hours
RTH 253 Activity Skills for Special Populations, 2 hours
MKT 301 Principles of Marketing, 3 hours
ENGL 401 Writing for Careers, 3 hours
SM 415 Legal Issues for the Sport Practitioner, 2 hours
SOC 385 Methods of Social Research, 3 hours

Concentrations, at least 12 hours selected from the following:
Program Leadership: SM 315, PRM/SM 330, RTH 360 required: 3 hours selected from
PE 353, PRM 420, 440, 434, 435.
Outdoor Leadership and Instruction: PRM 321 required;
Choose Outdoor Pursuits Option or Camping Option
Outdoor Pursuits Option: PRM 420 required: 6 hours selected from PRM
425, 426, 434, 435, 486 or RTH 470.
Camping Option: PRM 314 required, 6 hours selected from PRM 313, 425,
426, and RTH 470.
Commercial Recreation and Tourism: PRM 440 required;
Choose Resort Option or Entrepreneur Option or Adventure Tour Option
Resort Option: 9 hours selected from ACCT 161, HM 130, HM 333, PRM/SM
330, HM 335, SM 315, RTH 360.
Entrepreneur Option: BA 133, MGT 401, PRM 485.
Adventure Tour Option: 9 hours selected from: PRM 425, 426, 434, 435,
and 486.

Recreation Resource Management (12 hours). An approved area of study tailored to suit
specific land agencies such as the National Parks Service, Forest Service, Bureau of Land
Management, Bureau of Indian Affairs, state parks, and Army Corp of Engineers.

General electives, 14 hours, at least 9 hours at the junior-senior level are required to complete
the program.

Admission criteria:
All requirements for admission to Parks and Recreation Management (PRM) must be met by
the beginning of the semester following the semester in which the student submitted the
application. The following are requirements for admission:
1. complete an essay after reviewing current PRM journals on reasons for becoming a
   PRM major;
2. complete a personal strategic plan with an adviser to plan to include involvement in
   professional activities as well as academic expectations.
3. earn (and maintain) a minimum cumulative GPA of 2.5 on hours attempted at WCU.

**Minor in Parks and Recreation Management**
The minor requires 21 hours, including PRM 150, 250, 270, 461, SM 315, 415, 435, and 3 hours selected from PRM 430, 433, or 440.

**Major in Recreational Therapy, B.S. Degree**
Liberal Studies, 42 hours

Program requirements, 14 hours: COUN 430, BIOL 291, 292, CDFR 364.

The major requires 58 hours as follows:
RTH 340 Foundations of Recreational Therapy, 3 hours
RTH 350 Recreational Therapy and Persons with Physical Disabilities, 3 hours
RTH 352 Recreational Therapy Processes and Techniques, 3 hours
RTH 360 Recreational Therapy Services for the Elderly, 3 hours
RTH 395 Pre-Internship Seminar, 1 hour
RTH 417 Administration of Recreational Therapy Services, 3 hours
RTH 450 Advanced Methods in Recreational Therapy, 3 hours
RTH 470 Adventure-Based Recreational Therapy, 3 hours
RTH 484 Recreational Therapy Clinical Internship, 6 hours
RTH 485 Recreational Therapy Clinical Internship, 6 hours
PRM 270 Leadership and Group Dynamics in Recreation, 3 hours
PSY 250 General Psychology, 3 hours
PSY 470 Abnormal Psychology, 3 hours
HSCC 220 Medical Terminology, 3 hours
HSCC 330 Legal and Legislative Aspects of Health Care, 3 hours
HSCC 370 Introduction to Pharmacology, 2 hours
HEAL 250 First Aid and Safety Education, 2 hours
ENGL 401 Writing for Careers, 3 hours
PE 423 Kinesiology, 2 hours

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

**Major in Sport Management, B.S. Degree**
Liberal Studies, 42 hours

Program requirements, 12 hours: ACCT 161 or 251; CIS 293 or 301; ECON 231; MKT 301.

The major requires 63 hours as follows:
Core courses, 42 hours
SM 260 Introduction to Sport Management, 3 hours
SM 313 Psychological Aspects of Sport, 3 hours
SM 380, 383, or 389 Independent Study, Apprenticeship, or Cooperative Education, 1 hour
SM 415 Legal Issues for the Sport Practitioner, 3 hours
SM 423 Sociology of Sport, 3 hours
SM 435 Event and Facility Management and Marketing, 3 hours
SM 460 Financial Aspects of Sport, 3 hours
SM 461 Sport Marketing Promotions, 3 hours
SM 484, 485 Internship in Sport Management, 12 hours
SM 495 Sport Management Seminar, 2 hours
MGT 300 Introduction to Management, 3 hours
MGT 304 Personnel Management, 3 hours
Concentration (21 hours) selected from:

*Athletic Training*: HSCC 240; ND 330; PE 423, 425; SM 213, 383, 413, PE 335 or BIOL 291 and BIOL 292.
Exercise Science and Fitness Management: CHEM 132, 133; PE 423, 425; ND 330; PE 335 or BIOL 291 and BIOL 292. Two courses selected from the following: PE 104, 105, 114, 115, 116, 118, 261. (Courses selected for general education requirements may not be utilized.)

Professional Sport Management: MGT 302, MKT 304, 306, 405; LAW 230, 315; and CMPR 360.

Recreational Sport Management: PE 265 or 266; PRM 254, 270, 461; RTH 253; SM 315, 330; and two credits selected from PE 102 through 129, 204, 207 through 210, 261, 262, 263. (Courses selected for general education requirements may not be utilized.)

Sales: ACCT 251/252; MGT 401; MKT 302, 304, 306, 403; LAW 230.

Sports Information: CMCR 140, 301; CMPM 303, 304, 305, and CMPR 360. Three credits selected from PE 122 or 209, 123 or 210, 132, 133, 134, 135, 262, 263.

General electives (11 hours), including appropriate credits at the junior-senior level, are required to complete the program.

Sport Management majors must have a C or better in all SM prefix courses in order to intern and graduate.

Admission Criteria:

All requirements for admission to Sport Management (SM) must be met by the semester in which the student submitted the application. The following are requirements for admission:

1. A completed essay on career aspirations within the sport industry.
2. Earn and maintain a minimum cumulative GPA of 2.5 on hours attempted at WCU.
3. The 2.5 GPA must be maintained to do internships and graduate in Sport Management.

Requirements for Application to the Sport Management Major
- Completed application form and personal résumé
- Less than 90 credit hours already accumulated (includes WCU and transfer hours)
- “C” or better in SM 260 - Introduction to Sport Management and any other SM attempted courses
- 2.3 WCU cumulative grade point average

Requirements for Internship in Sport Management
- 2.0 WCU Grade Point Average
- 2.0 in all courses required for the major and selected concentration
- “C” or better in all SM prefix courses
- Permission of Sport Management Adviser
- Completion of all required coursework
- Coaching minor if intended internship is in coaching

Requirements for Graduation in Sport Management
- 2.0 WCU Grade Point Average
- 2.0 cumulative GPA in all courses required for the major and concentration
"C" or better in all SM prefix courses
* 128 semester hours
* All other WCU requirements

Other Information

Up to twelve majors will be admitted each academic semester (fall and spring). There may be a limit to the number of students admitted to any given concentration. All applications to the major and required information must be submitted prior to the due date each semester for full consideration. Deadline for fall applications (spring admission) is October 1. Deadline for spring applications (fall admission) is March 1.

*If a student intends to select an internship in coaching, a coaching minor is required.

Minor in Coaching
The minor requires 21 hours, including HEAL 250, PE 335, SM 213, 313, 415, and two courses selected from PE 410, 411, 418. The minor is not open to physical education majors.

Minor in Dance
The minor requires 18 hours, including PE 251, DA 258, 259, 301, 302 and 3 hours selected from PE 205, DA 252, 253, 254, 255, 256, or 257.

Minor in Physical Education
The minor requires 21 hours, including HEAL 250, PE 312, 325, 345, 353, 435, SM 415, and choice of two from PE 261, 262, 263.

DEPARTMENT OF HUMAN SERVICES

Monica L. Bellon, 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.

Liberal Studies, 42 hours

Special education major, 36 hours as follows:
240 The Exceptional Child, 3 hours
310 Evaluation of the Exceptional Child, 3 hours
312 Teaching Elementary Children with Learning Problems (K-6), 3 hours
401 Introduction to Learning Disabilities, 3 hours
405 Introduction to Mental Retardation, 3 hours
413 Teaching Adolescents with Learning Problems, 3 hours
417 Managing Classrooms for Exceptional Children, 3 hours
450 Individual Educational Plans for Students with Disabilities, 3 hours
484 Practicum in Special Education, 3 hours
EDEL 318 Elementary/Middle Grades Mathematics, 3 hours
EDRD 474 Practicum in Teaching Reading, 3 hours
Guided electives, 3 hours
The professional education sequence (21 hours), a disciplinary focus area (24 hours), 5 general elective hours, and 50 hours of community service are required to complete the program.

Major in Communication Disorders, B.S.Ed. Degree

This is a preprofessional program. Licensure and certification by the State of North Carolina and the American Speech-Language-Hearing Association require successful completion of a master’s degree. Enrollment in EDCD 485 requires completion of a minimum of twenty-five hours of supervised observation of clinical experience and a cumulative GPA consistent with current program requirements.

Liberal Studies, 42 hours
The major requires 37 hours as follows:
SPED 240 The Exceptional Child, 3 hours
EDCD 270 Introduction to Communication Disorders, 3 hours
EDCD 301 Speech and Language Development, 3 hours
EDCD 320 The Clinical Process, 3 hours
EDCD 370 Phonetics, 3 hours
EDCD 371 Articulation/Phonological Disorders, 3 hours
EDCD 372 Speech Science, 3 hours
EDCD 450 Introduction to Audiology, 3 hours
EDCD 471 Anatomy and Physiology of the Speech Mechanism, 3 hours
EDCD 474 or 478 Voice Disorders or Fluency Disorders, 3 hours
EDCD 476 Language Disorders in Children, 3 hours
EDCD 485 Clinical Practicum in Communication Disorders, 1 hour
EDCD 495 Seminar in School Practice, 3 hours

Concentration, 24 hours
The professional education sequence requires EDCI 231, PSY 320, and PSY 321, 9 hours.
General electives include 16 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
Mickey Randolph, Head


Major in Psychology, B.S. Degree
Liberal Studies, 42 hours
The major requires 39 hours as follows:
150 General Psychology, 3 hours
251, 252 Research Methods I, II, 6 hours
455 Systems and Theories in Psychology, 3 hours
495 Senior Seminar in Psychology, 3 hours
Psychology electives:
Developmental, 3 hours selected from 320, 322, 325, 327
Social, 3 hours selected from 310, 313, 333
Experimental, 3 hours selected from 440, 444, 448
Clinical, 3 hours selected from 363, 430, 441, 470, 474
Others, 15 hours excluding 101
To complete the program, a total of 48 hours is required, including at least 11 hours of general electives, appropriate credits at the junior-senior level, and either (1) a second major, minor, or other approved program or (2) a 21-hour concentration selected from:

**Applied/Developmental Psychology**: 21 hours selected from 320, 325, 327, 333, 360, 363, 426, 441, 460, 474, 482.

**Minor in Gerontology**
The minor requires 24 hours, including PSY 260; CDFR 364 or PSY 325; PSY 252 or SOC 385 or NSG 470; at least one course from the Biological Perspective—ND 330, NSG 393, PE 335; at least one course from the Social-Psychological Perspective—CDFR 469, PSY 327, PSY 426, SOC 494; at least one course from the Interventions Perspective—EMC 430, NSG 405, SOGW 329, RTH 253, RTH 360; and one applications course—CDFR 483, 484, 485, NSG 480, PSY 482, 483, 484, 485, SOC 483, 484, 485, SOGW 483, 484, 485.

**Minor in Life Span Development**
The minor requires 24 hours, including PSY 325; 3-6 hours selected from PSY 327, 393; 6-9 hours selected from PSY 331, 333, 426, 470, 474; CDFR 261, 469; COUN 450; and 3-6 hours in PSY 482, 483, or approved courses named above.

**Minor in Psychology**
The minor requires 24 hours, including 150, 251 (or equivalent), 252 (or equivalent), and 15 hours of approved psychology electives.
THE GRADUATE SCHOOL*

Abdul M. Turay, Dean
William E. Harn, 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 twelve master’s degrees with more than fifty options in the different professional and academic areas. The education specialist and doctoral degree in educational leadership are also offered.

Master of Accountancy

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

Master of Arts in Education: Majors in Educational Administration (two-year college), Counseling (school), Elementary Education, Middle Grades Education, Special Education General (with concentrations in behavioral disorders, learning disabilities, mental retardation, and severe and profound disabilities), Educational Supervision (curriculum-instruction, instructional technology specialist-computers, international studies), and in Two-Year College Teaching with majors in Biology, English, Mathematics, Physical Education, and Individually Approved Multi-Disciplinary Studies.


Master of Physical Therapy

Master of Project Management

Master of Public Affairs

Master of School Administration

Master of Science: Majors in Applied Mathematics, Biology, Chemistry, Communication Disorders, Community Counseling, Human Resource Development, and Technology.

Master of Science in Nursing

Education Specialist: Educational Leadership

Doctor of Education: Educational Leadership

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. Some programs may require a higher GPA. Departments also require some form of standardized test such as GMAT or GRE. Please consult the graduate catalog, The Record, for specific requirements for each program. Prospective students are encouraged to talk to the head of the department of the intended program concerning their eligibility to be admitted as

*Complete information will be found in the graduate catalog, The Record, available from the Graduate School.
a graduate student. Many programs require three letters of reference from former instructors or employers who are in a position to judge the applicant’s aptitude for graduate study. These forms are available from the Graduate School. Formal application and all credentials should be submitted to the Graduate School not later than six weeks prior to the opening of the term in which the student expects to enroll. Some programs have application deadlines. Applicants should contact the Graduate School to determine these programs.

Some graduate programs require a thesis. These are M.A. in American history (excluding public history and American studies options), M.A. in English, M.A. in psychology (clinical and school), M.S. in biology, and M.S. in chemistry. A thesis-exhibition is required for the M.A. in studio art. A thesis or lecture/recital is required for the M.A. in music. A thesis may be accepted for degree programs leading to the Master of Arts in education, the Master of health sciences, the Master of Science in applied mathematics and the Master of Science in communication disorders. A dissertation is required for the Ed.D.

A reading knowledge of a foreign language is required for the following programs: M.A. in American history and the M.A. in English. Other degree programs do not require proficiency in a foreign language.

All degrees may be completed with a minimum of thirty to seventy-five semester hours of graduate study. However, applicants may be required to take additional course work to strengthen their academic background.
All courses offered by the university are listed below. For the full description of graduate courses, refer to the graduate catalog. If the entry for an undergraduate course does not carry the full description, refer to the listing for the field of study designated by the parenthetical course prefix and number.

**Numbering System.** Each course is identified by means of a course prefix and a three-digit number. The first digit of the number designates the level of the course and indicates the minimum class rank a student should have achieved to enroll in the course.

- 01-100 Noncredit courses which are not applicable to degrees
- 101-199 Courses for freshmen
- 190-199 Freshman Seminar courses
- 200-299 Courses for sophomores
- 300-399 Courses for juniors
- 400-499 Courses for seniors
- 500-799 Masters-level courses
- 800-999 Doctoral-level 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.

The category of liberal studies to which each course applies may be found in the liberal studies requirements section. The applicable category also is indicated by the parenthetical code at the end of each course description.

**Core**
- C1 Writing
- C2 Mathematics
- C3 Oral Communication
- C4 Wellness

**Perspectives**
- P1 Social Sciences
- P2 Physical and Biological Sciences
- P3 History
- P4 Humanities
- P5 Fine and Performing Arts
- P6 World Cultures

The number 389 is reserved for cooperative education undergraduate courses and the number 589 is reserved for cooperative education graduate 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
- 779 Continuing Research - Non-Thesis Option
- 799 Continuing Research - Thesis Option
- 999 Continuing Research - Dissertation

**Course Prefixes.** The prefixes used to designate courses, except in the case of very short names such as Art, are abbreviations of the names of departments or of fields of study within the departments.

**Credits and Class Meetings.** Unless otherwise indicated at the end of the course description, the number of hours a class meets each week is the same as the credit-hour value.
of the course. The credit-hour value of each course is indicated in parentheses immediately following its title. For example, if 3 hours of credit may be earned, the credit is indicated as follows: (3). In variable credit courses, the minimum and maximum hours are shown as follows: (1-3). Unless repeat credit is specified in the course description, a course may be applied only once toward the hours required for graduation. The availability of a course for repeat credit and the maximum hours that may be earned are indicated within the parentheses and immediately following the credit-hour value of the course as follows: (3, R6). In this example, the course carries 3 hours of credit and may be repeated once for a total maximum of 6 hours applicable toward a degree.

Prerequisites and Corequisites. A prerequisite (PREQ) is any special requirement, usually one or more background courses or requirements other than class rank, that must be met before enrolling in a course specifying the prerequisite. A corequisite (COREQ) is any course which must be taken during the same term as the course that specifies the corequisite.

Experiential Courses. The maximum credit in experiential courses that may be applied toward a degree within the minimum of 120 or 128 hours required in all bachelor’s programs is 26 semester hours (20 percent). The maximum credit that may be earned in cooperative education or applied field project courses/internships or in any combination of the two is 15 hours.

Credit is awarded in experiential courses on the basis of a minimum of three contact hours per credit hour.

Cooperative Education Courses. Students participating in a cooperative education work term are registered for a 389 course in the major department, or the department most closely related to the work experience. To be eligible, a student must be at least a sophomore and have a GPA of 2.0 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 Services Office. Academic assignments and work performance are used to evaluate the student on an S/U basis.
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<td>USI</td>
<td>University Studies, Interdisciplinary</td>
<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)
Accounting techniques applied in a managerial context. Product costing techniques,
activity-based costing, cost-volume-profit analysis, budgeting, and short-term decision
models. PREQ: 251.

275 Intermediate Accounting I (3)
Accounting theory in financial statements, valuation and present value concepts,
current assets. PREQ: 252.

293 Topics in Accounting (1-3, R3)

301 Financial Statement Analysis (3)
Short-term liquidity, cash flow from operations, funds flow, capital structure, long-term
solvency, return on investment, asset utilization, and operating performance. PREQ:
252. COREQ: FIN 405, 495.

352 Intermediate Accounting II (3)
Theory applied to current and long-term liabilities, plant property and equipment,
tangible assets, and stockholders equity. PREQ: 275.

355 Introduction to Income Taxation (3)
Federal income taxation of individuals and sole proprietors, gross income inclusions
and exclusions, business and employee deductions, property transactions, capital gains
and losses, cost recovery. PREQ: 251.

356 Cost Accounting I (3)
Budgeting, systems design, responsibility accounting and motivation, standard costing,
variance analysis, cost behavior patterns, relevant costs, contribution analysis, and
income effects of costing alternatives. PREQ: 251.

361 Not-For-Profit Accounting (3)
Accounting principles as applied to governmental agencies and other nonprofit organi-
zations. PREQ: 252.

365 Accounting Information Systems (3)
Accounting information systems including understanding appropriate computer tech-
ology in accounting, systems design and evaluation, systems controls, and systems
implementation. PREQ: 252.

389 Cooperative Education in Accounting (1 or 3, R15)
See Cooperative Education Program.

454 Auditing I, II (3, 3)
Theory, practice, and procedures in independent audits, standards, professional ethics,
and internal control. PREQ: 352.

465 CPA Problems (3)

466 Income Tax II (3)

467 Controllership (3)
480 Independent Research in Accounting (3)
PREQ: Accounting major; permission of department head.

483 Accounting Internship (3, 3, 3)
484 Supervised work or research experience in applications of accounting theory. S/U grading. PREQ: Junior standing, 2.0 GPA, formal application, and permission of department head. Minimum of 10 hours per week.

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

Graduate Courses
601 Financial Analysis (3) 640 Auditing (3)
605 Accounting Theory and Practice I (3) 651 Managerial Accounting (3)
615 Accounting Theory and Practice II (3) 661 Advanced Theory (3)
616 Accounting Theory and Practice III (3) 662 Taxation and Business (3)
620 Income Tax Theory and Applications (3) 682 Research Project in Accounting (3, R6)
625 Advanced Accounting Information Systems (3) 693 Topics in Accounting (1-3, R6)
630 Cost/Managerial Accounting (3) 779 Continuing Research - Non-Thesis Option (1, R10)
635 Accounting and Auditing Concepts in Not-for-Profit Organizations (3)

Anthropology (ANTH)

110 Origins of Civilization (3)
The development of civilizations in major world areas from the earliest beginnings to the present. (P1)

120 Comparative Cultural Systems (3)
Analysis and comparison of the major features of diverse human cultures. (P6)

190 Freshman Seminar: The Human Condition (3)
Examination of various aspects of human cultural behavior. 3 Seminar. (P6)

250 Archaeology and Bioanthropology (3)
Evolutionary theory, human genetics, primatology, fossil humans, and early civilizations.

260 Cultural and Social Anthropology (3)
Survey and comparison of social, political, economic, religious, and artistic achievements to provide understanding of cultural diversity.

327 Economy and Society (3)
Types of economic systems examined and compared; emphasis on preindustrial and industrializing societies. PREQ: 260.

341 History of Anthropological Theory (3)
Concepts, theories, and schools of thought in historical context; contributions to contemporary anthropology. PREQ: 250, 260.

349 Applied Anthropology (3)
Examination of problems and solutions in programs of directed social and cultural change; case studies. PREQ: 260.

351 Environmental Anthropology (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.
Religion, Magic, Myth (3)
Nonliterate religious tradition and ritual behavior; life-crisis rituals, secret societies, magic and witchcraft, notions of divinity. PREQ: 260.

(ART 379) Cherokee Arts and Crafts (3)
Present-day Cherokee skills of woodcarving, basketry, pottery making, and other arts of Cherokee culture and society. 1 Lecture, 5 Lab.

(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.

Cooperative Education in Anthropology (1 or 3, R15) See Cooperative Education Program.

(SOC 414) Minority Groups (3)
Relations between dominant and subordinate races and ethnic groups; historical and comparative aspects; African Americans, Chicanos, and Indians. PREQ: SOC 231 and SOC 245; or ANTH 260; or permission of instructor.

Southern Appalachian Culture (3)
Stability and change in the sociocultural institutions of the region. PREQ: 260 or SOC 231.

Comparative Family (3)
The family as a social institution in various cultures. PREQ: 260 or SOC 231.

North American Prehistory (3)
Cultural history of the peoples of prehistoric North America, including Mexico. PREQ: 250.

Archaeological Field Techniques (3)
Basics of field work: surveying, photography, excavation, recording, and preservation techniques. PREQ: Permission of instructor.

Archaeological Problems and Analyses (3)
Experience in collecting and analyzing relevant archaeological data. PREQ: Permission of instructor.

Indians of North America (3)
Traditional and changing life styles of native North Americans; environmental adaptations, social organizations, religions, and arts. PREQ: 260.

Cultures of South Asia (3)
The cultures of India, Pakistan, Ceylon, Nepal, Afghanistan, and other South Asian countries. PREQ: 260.

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.

Contemporary Cherokee Culture and Society (3)
Present-day Cherokee culture and society; effects of tourism and the reservation system on life styles. PREQ: 260.

Cultures of Subsaharan Africa (3)
Cultural diversity and development in Subsaharan Africa from earliest times to the present.

Independent Study in Anthropology (1-2, R6)
PREQ: Written application, approval of instructor and adviser.

Anthropology Internship (3, 3, 3)
Application of academic training in an approved agency under faculty supervision.

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)
PREREQ: 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 Archaeological Field Techniques (3)
541 Archaeological Problems and Analyses (3)
561 Indians of North America (3)
565 Cultures of South Asia (3)
566 Folklore (3)
573 Contemporary Cherokee Culture and Society (3)
577 Cultures of Subsaharan Africa (3)
581 Independent Study in Anthropology (1-2, R6)
593 Topics in Anthropology (3, R6)

Art (ART)

102 Non-Western Art (3)
Style, symbolic expression, and attitudes toward mankind’s relationship to nature in North America, Africa, and the South Pacific.

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

104 Introduction to the Visual Arts (3)
An analysis of artists and their works, forms and methods of visual expression, and examination of critical thinking as applied to visual form and content. (P5)

120 Beginning Drawing and Sketching (1)
Experiments with a variety of drawing materials to familiarize the nonmajor with various approaches. 2 Lab.

124 Beginning Ceramics (1)
Introduction to clay forming, firing, and glazing techniques for nonmajors. 2 Studio.

125 Introduction to Calligraphy (1)
Basic calligraphy for nonmajors as appreciation of letter forms in visual elements. 2 Studio.

131 Introductory Drawing (3)
The investigation of both traditional and nontraditional methods of drawing with emphasis on the nature of drawing as a way of seeing and organizing ideas and perceptions. 6 Studio.

132 Two-Dimensional Design (3)
Foundation course with an emphasis on traditional two-dimensional techniques. Emphasis is placed on use of materials and tools, problem solving, aesthetic theory, and criticism. 6 Studio.

136 Art History Survey I (3)
Ancient, medieval, and non-European art.

137 Art History Survey II (3)
Western art, Renaissance through modern.

141 Figure Drawing (3, R6)
Analytical and compositional life drawing based on the human form using varied media; study of anatomy, master drawings and the use of the figure for purposes of design and expression. PREQ: 131. 6 Studio.

142 Three-Dimensional Design (3)
Traditional and nontraditional studio techniques, tools, and media. Emphasis is placed on problem solving through studio activity and relating art theory and criticism to the studio. 6 Studio.

233 Introductory Painting (3)
Emphasis on color theory and the materials and techniques of painting. Historical
concerns are integral parts of directed and individual investigations. PREQ: 131, 132 or permission of instructor. 6 Studio.

234 Introductory Printmaking (3)
Materials and methods of various printmaking techniques as they relate to historical and contemporary issues. PREQ: 131, 132, or permission of instructor. 6 Studio.

241 Introductory Sculpture (3)
Principles and processes of sculpture, supported by critical thinking, class critique, historical and contemporary references. PREQ: 131 and 142 or permission of instructor. 6 Studio.

251 Introductory Ceramics (3)
Basic principles of ceramics: technical, critical, and historical. 6 Studio.

263 Introduction to Art Education (1)
Introduction to current art education topics and approaches for teaching art in the traditional and nontraditional settings. 2 Studio. Spring only.

270 Communication Design (3)
Principles of visual communications including structure, typography, color and semantics; emphasis on developing an understanding of the scope of graphic design including theory, practice, and technology. PREQ: 132. 6 Studio.

306 Renaissance Art (3)
The Renaissance in Italy and northern Europe; major trends and personalities in art and architecture. PREQ: 137 or permission of instructor.

309 Seventeenth and Eighteenth-Century Art (3)
Major baroque and rococo artists, architects, landscape and urban designers in Europe. PREQ: 137 or permission of instructor.

312 Nineteenth-Century Painting (3)
Major figures and styles in European painting. PREQ: 137 or permission of instructor.

314 American Painting (3)
From colonial limners to contemporary art. PREQ: 137 or permission of instructor.

316 Development of Modern Art: Painting, Sculpture, and Architecture (3)
From Manet, Rodin, and Richardson to Post-Modernism in painting, sculpture, and architecture. PREQ: 137 or permission of instructor.

317 Origins of Modern Sculpture (3)
Academic sculpture in the nineteenth century: Modernist innovations from Rodin to David Smith. PREQ: 137 or permission of instructor.

319 History of Design (3)
Survey of the development of graphic design from prehistory through contemporary visual communications; topics include typography, photography, illustration and current conceptual and art historical issues. PREQ: Permission of instructor.

320 Intermedia in Contemporary Culture (3)
Historical perspective of critical developments in visual media arts beginning with early 20th century through present. Examination of internet, broadcast, video, interactivity and virtual media.

330 Intermediate Drawing (3, R6)
The history and functions of drawing: drawing as a method of developing ideas and as an end itself; relationship to other media. PREQ: 141. 6 Studio.

333 Intermediate Painting (3, R6)
Materials, techniques, and aesthetic issues of painting in contemporary and abstract modes with focus on personal interpretation and perception. PREQ: 233. 6 Studio.
334 Intermediate Printmaking (3, R6)
Exploration of various printmaking techniques with focus on personal interpretation and perception. PREQ: 234. 6 Studio.

342 Intermediate Sculpture (3, R6)
Materials, techniques, and aesthetic issues of sculpture in contemporary and abstract modes with focus on personal interpretation and perception. PREQ: 241. 6 Studio.

350 Fibers (3, R12)
Exploration of weaving techniques and structural forms in fibers combined with the history of weaving and the critical evaluation of projects. 6 Studio.

351 Intermediate Ceramics (3, R6)
Study of ceramics within a historical and contemporary context; emphasis on clay-forming techniques combined with class discussion and criticism. PREQ: 251. 6 Studio.

352 Jewelry and Metalsmithing (3, R12)
Basic principles of jewelry and metalsmithing; technical, critical, and historical. 6 Studio.

354 Glass (3, R12)
Basic techniques of glassblowing and flat glass. Conceptual, technical, critical, and historical issues will be emphasized. 6 Studio. PREQ: Permission of instructor.

359 Introductory Book Arts (3)
Principles and techniques for producing handmade books, including papermaking, bookbinding, and printing. Exploration of books as a format for developing concepts and imagery. 6 Studio.

363 Art for Children (1)
Fundamentals for designing and implementing lessons to teach art to children in all educational settings. Teaching diverse multicultural populations discussed. 4 Studio.

365 Art Methods for the Elementary School (3)
Curriculum planning, exploration of age-appropriate art media and methods for teaching art to diverse populations in the elementary school. Field experience required. PREQ: 263. 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 contemporary modes of visual communication. Readings, research, and discussions on critical thinking and aesthetic theory. PREQ: 270, 370, or permission of instructor. 6 Studio.

372 Introductory Photography (3)
Camera operation, film processing, and darkroom printing combined with classroom critiques: emphasis on historical and current trends of black and white photography. 6 Studio.

373 Illustration (3, R6)
Focus on the development of concepts through methods of visual expression as a means of communicating ideas; problem-solving approaches with an emphasis on drawing, painting, color, and other modes of illustration. PREQ: 131. 6 Studio.
374 Introductory Typography (3)
Comprehensive analysis of letter forms, structural arrangements and expressions through computer generated and traditional typographic procedures; emphasis on theoretical and practical aspects of applied typography. 6 Studio.

379 (ANTH 379) Cherokee Arts and Crafts (3)

389 Cooperative Education in Art (1 or 3, R15) See Cooperative Education Program.

416 Contemporary Art (3)
Contemporary directions in the visual arts since 1945; emphasis on trends during the past five years. PREQ: 137 or permission of instructor.

420 Intermedia in Contemporary Culture (3)
Historical perspective of critical developments in visual media arts beginning with early 20th century through present. Examination of internet, broadcast, video, interactivity and virtual media.

433 Advanced Painting (3, R6)
Emphasis on the exploration of abstract or figurative modes of painting and critical thinking within a contemporary context. PREQ: 333. 6 Studio.

434 Advanced Printmaking (3, R6)
Study of selected printing media through independent, self-directed projects under faculty supervision. PREQ: 334. 6 Studio.

440 Advanced Drawing (3, R6)
Perceptual and conceptual drawing design problems; emphasis on a drawing project augmented by discussion, readings, and critique. PREQ: 330. 6 Studio.

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

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

459 Intermediate Book Arts (3, R6)
This course will explore a variety of possibilities for working with the book as an artist’s medium. Students will investigate traditional bookbinding, nontraditional book formats and a variety of image making techniques, including printmaking, while working towards an extruded final project. PREQ: 234; 356. 6 Studio.

460 Computer Graphics Practicum (3, R6)
Production and experimentation with computer-generated imagery and investigation of software programs. 6 Studio.

463 Art Methods for the Middle and High School (3)
Curriculum planning, exploration of suitable art media and methods for teaching art to diverse populations at the middle and high school level. PREQ: 263, 365, admission to the teacher education program. Field experience required. 6 Studio.

470 Package Design (3)
Fundamentals of package design and construction; use of materials, methods, and graphic procedures; experimentation, investigation, and critical interpretation of two- and three-dimensional forms. PREQ: 370 or permission of instructor. 6 Studio.

471 Advanced Graphic Design (3)
Emphasis on personal exploration of materials and methods related to visual communications. PREQ: 371. 6 Studio.
472 Intermediate Photography (3, R6)
Emphasis on personal direction and advanced technical problems. PREQ: 372 or permission of instructor. 6 Studio.

474 Portfolio (3)
A portfolio of creative work formulated and executed by the student with instructor supervision; required of all students concentrating in graphic design; available to all studio majors. PREQ: Permission of instructor. 6 Studio.

475 Intermediate Typography (3, R6)
Emphasis on personal directions and advanced technical problems applied to typographic expression. PREQ: 132, 370, 371, 374. 6 Studio.

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

479 Animation (3, R6)
Survey of animation techniques including object animation, character animation, experimental/video techniques and motion graphics. Not intended as computer course but instruction of related programs provided. PREQ: Permission of instructor.

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

482 Independent Study in Art History (1-6, R6)
PREQ: Submitted proposal must be approved by instructor.

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

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

493 Topics in Art (1-4, R12)
PREQ: Permission of instructor.

494 Topics in Art History (1-4, R12)
PREQ: Permission of instructor.

531 Drawing Problems (3, R6)
532 Design Problems (3, R6)
533 Painting Problems (3, R6)
534 Printmaking Problems (3, R6)
544 Sculpture Problems (3, R6)
551 Ceramics Problems (3, R6)
553 Weaving Problems (3, R6)
564 Art Education Problems (3, R6)
582 Independent Study in Art History (1-6)
586 Exhibition Practicum (3)
593 Topics in Art (1-4, R7)
596 Art History Seminar (3)
597 Seminar in Contemporary Art (3)
631 Graduate Drawing (3, R9)
632 Graduate Design (3, R9)
633 Graduate Painting (3, R9)
634 Graduate Printmaking (3, R9)
644 Graduate Sculpture (3, R9)
651 Graduate Ceramics (3, R9)
652 Graduate Jewelry (3, R9)
653 Graduate Weaving (3, R9)
667 Graduate Photography (3, R9)
680 Independent Study in Art Education (3, R6)
681 Graduate Problems in Art (3)
682 Independent Study in Art History (1-6)
696 Graduate Seminar in Art History (3, R6)
697 Seminar in Art Education (3, R6)
699 Thesis (3)
779 Continuing Research - Non-Thesis Option (1, R10)
799 Continuing Research - Thesis Option (2, R24)
Arts and Sciences Interdisciplinary Courses (ASI)

100 Introduction to American Culture (3)
Survey of contemporary American culture: basic history, geography, cultural characteristics, and customs. PREQ: International student or permission of instructor. COREQ: ENGL 131 or permission of instructor.

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

230 Introduction to Women's Studies (3)
Introduction to a variety of disciplinary perspectives as they affect the status and roles of women in society.

250 Introduction to Appalachian Studies (3)
Interdisciplinary examination of Appalachia's culture, history, creative traditions, and natural environment to illuminate current issues. Field trips, projects, guest lectures.

293 Special Topics (1-4, R6)

300 University Forum for Contemporary Issues (1, R6)
Issues, problems, and developments of current interest presented by faculty and, occasionally, visiting scholars. S/NC grading.

393 Special Topics (3, R12)

450 Appalachian Studies Seminar (3)
Field-based, interdisciplinary capstone seminar of Appalachia's culture, history, creative traditions, and natural environment to illuminate current issues. Field trips, projects, guest lectures. PREQ: 250 and permission of instructor.

493 Topics in American Studies (3, R6)
Seminar on particular facets of American culture such as literature and art, philosophy and politics, and folklore and society.

494 Topics in Cherokee Studies (3, R6)
Various topics in Cherokee studies such as anthropology, history, sociology, and literature. Juniors will not be allowed to enroll in this course. PREQ: Permission of instructor.

Graduate Courses
593 Topics in American Studies (3, R6)
594 Topics in Cherokee Studies (3, R6)

Astronomy (AST)

101 Descriptive Astronomy (3-4)
Characteristics of solar stellar systems examined in terms of the technologies and attitudes of man. 3 Lecture, 2 Lab (lab is optional).

103 The Solar System (3)
A descriptive introduction to our solar system from a historical and evolutionary perspective. (P2)

104 Cosmic Evolution (3)
A descriptive introduction to stars, galaxies, and the universe, from an evolutionary perspective. (P2)

301 Modern Astronomy (3)
Techniques of measurement and research. PREQ: 230. 2 Lecture, 1 Lab.
Graduate Courses

601 Astronomy for Teachers (3)

Biology (BIOL)

102 Human Genetics (3)
Principles of biology relative to development of human heredity characteristics. 2 Lecture, 2 Lab. (P2)

103 Environmental Biology (3)
Principles of biology relative to ecology and modern environmental problems. Ecosystems structure and function, population growth, food production, pollution, and resource use. 2 Lecture, 2 Lab. (P2)

104 Human Biology (3)
The biology which underlines medical, social, and developmental issues of the human lifecycle. 2 Lecture, 2 Lab. (P2)

105 Biology in the 21st Century (3)
Modern biology from a cellular and molecular perspective, emphasizing cell structure, function, genes and genetic engineering, disease and evolution. 2 Lecture, 2 Lab. (P2)

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.

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 inheritance and development of human characteristics and the relationship of genetics to society. PREQ: 101 or permission of instructor.

140 Principles of Biology I (4)
Introduction to biology for majors. Basic cell structure and function, bioenergetics, introduction to genetics and molecular biology, evolutionary processes. COREQ: 140 lecture and 140 lab. 3 Lecture, 3 Lab. (Lecture-3 credits, Lab-1 credit) (Lab is required).

141 Principles of Biology II (4)
Second course for biology majors. Evolutionary patterns (Monera, Protista, Fungi, Plants, and Animals), introduction to plant and animal physiology, organismic interactions (Behavior, Ecology). PREQ: 140. COREQ: 141 lecture and 141 lab. 3 Lecture, 3 Lab. (Lecture-3 credits, Lab-1 credit). (Lab is required).

190 Discoveries in Biology (3)
Discoveries in biology used as the basis for exercises involving analysis of scientific reasoning, the scientific method, and experimental design. (P2)

192 Plant Biodiversity (3)
Southern Appalachian plant diversity as a background in botanical sciences. Experience with field identification techniques and human use of plants in medicines, foods, and fiber. 2 Lecture, 2 Lab. (P2)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>193</td>
<td>Forensic Biology (3)</td>
<td>An exploration of techniques, applications, and social implication of forensic biology, including the science behind fingerprints, blood typing, DNA fingerprints, and other forensic areas. (P2)</td>
</tr>
<tr>
<td>251</td>
<td>Natural History of the Southern Appalachians (4)</td>
<td>Interdisciplinary study of this unique environment, on-site studies, scheduled pack trips. PREQ: 141. 2 Lecture, 6 Lab.</td>
</tr>
<tr>
<td>254</td>
<td>Dendrology (4)</td>
<td>Structure, distribution, identification, and economic uses of major forest trees of the United States; emphasis on regional species. 2 Lecture, 6 Lab/field.</td>
</tr>
<tr>
<td>291</td>
<td>Human Anatomy and Physiology (4, 4)</td>
<td>The skeletal, muscular, digestive, circulatory, respiratory, excretory, integrative, and reproductive systems. PREQ: Completion of 24 semester hours. 3 Lecture, 3 Lab.</td>
</tr>
<tr>
<td>304</td>
<td>General Ecology (3)</td>
<td>Ecosystem and population processes, pathways of energy and materials, interactions between organisms and populations and human role in the biosphere. PREQ: 141 or permission of instructor. COREQ: 304 lecture and 304 lab. 2 Lecture, 3 Lab. (Lecture-2 credits, Lab-1 credit). (Lab is required).</td>
</tr>
<tr>
<td>305</td>
<td>Genetics and Evolution (3)</td>
<td>Processes on inheritance and evolution from the molecular to the population level: experiments with various organisms and analysis of sample data illustrating principles of genetics. PREQ: 141 or permission of instructor. COREQ: 305 lecture and 305 lab). 2 Lecture, 3 Lab. (Lecture-2 credits, Lab-1 credit). (Lab is required).</td>
</tr>
<tr>
<td>311</td>
<td>Animal Physiology (2)</td>
<td>Principles of homeostasis, cell and tissue communication systems, contractility, respiration, excretion, and metabolism in animals. PREQ: BIOL 141 and CHEM 140.</td>
</tr>
<tr>
<td>313</td>
<td>Microbiology in Health and Nutrition (3)</td>
<td>Morphological, cultural, biochemical, and staining characteristics of microorganisms; emphasis on those that infect man and occur in water, food, and dairy products. PREQ: Permission of instructor. 2 Lecture, 3 Lab.</td>
</tr>
<tr>
<td>315</td>
<td>Introduction to Plant Physiology (1)</td>
<td>Introduction to plant metabolism, conduction, development, and defense mechanisms. PREQ: BIOL 141 and CHEM 140. 1 Lecture, 1 Lab.</td>
</tr>
<tr>
<td>333</td>
<td>Cell and Molecular Biology (3)</td>
<td>Viral, prokaryotic, and eukaryotic cell structure; DNA structure and replication; RNA and protein synthesis; control of gene expression. Structure and function of specific cell types. PREQ: 141 and 305 or permission of instructor. COREQ: 333 lecture and 333 lab. 2 Lecture, 3 Lab. (Lecture-2 credits, Lab-1 credit). (Lab is required).</td>
</tr>
<tr>
<td>361</td>
<td>(CHEM 361) Principles of Biochemistry (3)</td>
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</tr>
<tr>
<td>373</td>
<td>Invertebrate Zoology (4)</td>
<td>Morphology, physiology, behavior, ecology, and evolution of invertebrates. PREQ: 141. 2 Lecture, 6 Lab.</td>
</tr>
<tr>
<td>374</td>
<td>Vertebrate Zoology (4)</td>
<td>Morphology, physiology, behavior, ecology, and evolution of vertebrates. PREQ: 141 or permission of instructor. 2 Lecture, 6 Lab.</td>
</tr>
<tr>
<td>389</td>
<td>Cooperative Education in Biology (1 or 3, R15)</td>
<td>See Cooperative Education Program.</td>
</tr>
<tr>
<td>413</td>
<td>Principles of General Microbiology (2)</td>
<td>Survey of microorganisms emphasizing morphology, physiology, immunology, and ecology: microorganisms and disease; environmental and applied microbiology. Not open to students with credit in 313.</td>
</tr>
</tbody>
</table>
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: BIOL 141 and CHEM 140. 3 Lecture, 3 Lab.

416 Plant Molecular Biology (3)
Molecular aspects of plant development. Examination of the structure, expression and function of genes involved in the flowering plant life cycle, including genes controlling embryogenesis, vegetative growth, plant-pathogen interaction, and reproduction. PREQ: 333 or equivalent.

417 Biochemistry (3)
The metabolism of carbohydrates, lipids, nucleic acids, and proteins in plant and animal systems. PREQ: BIOL 304, 305 and CHEM 242, 272; or permission of instructor.

419 Cell Biology (4)
Structure and function: techniques for the study of cells. PREQ: 333. 3 Lecture, 3 Lab.

420 Darwin's Origin of Species (3)
A detailed reading and analysis of Darwin's landmark work, On the Origin of Species. Examining its historical and philosophical context, and its social and scientific significance. PREQ: 140, 141, 304, and 305 or equivalent.

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: 141. 2 Lecture, 6 Lab.

434 Terrestrial Ecology (4)
Population, ecosystem, community structure, and dynamics; major North American biomes; field and descriptive methods; required weekend field trips. PREQ: 304 and 305. 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: 304. 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: 304 and 305.

451 Biology of Fungi (4)
Slime molds and true fungi: life histories, morphology, host-parasite relationship, fine structure, and phylogeny. PREQ: 141.

452 Plant Anatomy (4)
Plant cells, tissue organization in phylogenetic perspective, botanical microtechniques. PREQ: 141. 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: 305. 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: 141. 3 Lecture, 3 Lab.
457 Biology of Algae (4)
Life history, structure, reproduction, and phylogeny of the algae. PREQ: 141. 3 Lecture, 3 Lab.

466 Aquaculture (1)
Commercial practices for the intensive production of fish; review of the elements involved in aquaculture systems with examples of aquatic farming and examination of problems related to industry. PREQ: 141 and 304; or permission of instructor.

467 Biostatistics (3)
Statistical concepts and methods for biologists. Design of experiments for computer analysis by ANOVA, single or multiple regression, principal components. An elementary statistics course is recommended. 2 Lecture, 2 Lab.

470 Biology of Arthropods (4)
Functional morphology, physiology, natural history, and systematics of the arthropods; field/lab emphasis on spiders. PREQ: 141. 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: 141 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: 304 and 305. 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: 141 and 304; or permission of instructor. 2 Lecture, 2 Lab.

480 Research in Biology (2, R6)
PREQ: Junior standing, permission of research director.

493 Studies in Biology (1-6, R12)
PREQ: Permission of department head.

495 Introduction to Senior Thesis (1)
Designed to introduce experimental design and assist in selection of a senior thesis project. PREQ: Permission of department head.

496 Senior Seminar (1)
PREQ: 140, 141, 304, 305, and 333; or permission of instructor.

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)
516 Plant Molecular Biology (3)
517 Biochemistry (3)
519 Cell Biology (4)
520 Darwin's Origin of Species (3)
525 Flora of the Southern Appalachians (4)
570 Biology of Arthropods (4)
571 Animal Behavior (4)
576 Contemporary Fisheries (3)
578 Histology (4)
589 Cooperative Education in Biology (3, R6)
593 Advanced Studies in Biology (1-6, R12)
612 Principles of Chemical Ecology (3)
613 Molecular Biology (3)
Birth-Kindergarten (BK)

260 Foundations of Child Study (3)
Childhood in western culture from a multidisciplinary perspective. Emphasis on the philosophical roots of the early childhood model and its role in educational reform.

361 Environments for Young Children (3)
The physical, emotional, and social environment suitable for young children: room arrangement, scheduling, space utilization, and teacher-child interaction.

366 Infant Development and Curriculum (3)
Dynamics of infant development and curriculum for both typical children and children with or at risk for disabilities. 2 Lecture, 3 Lab. PREQ: CDFR 360.

462 Adult-Child Interaction (3)
Various cultural paradigms influencing behavior of adults regarding children’s discipline. Facilitation of self-management through nonverbal and verbal communication, and the dimensions of play.

470 (EDEL, SPED) Early Childhood Curriculum (3)
Materials, environments, and interactions for 2-5 year olds in all curricular areas including thinking and social problem-solving for typical and atypical children. 2 Lecture, 3 Lab. PREQ: 366.

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

483 (SPED) Internship (4, R16)
Observing, planning, teaching, and evaluating young children in typical and atypical settings. COREQ: BK 496. 5 days/week, full-time.

488 (EDEL, SPED) Internship II (3, R9)
Observing, planning, teaching, and evaluating young children in typical and atypical settings.

493 Special Topics (1-3, R6)
Current topics in birth-kindergarten development and curriculum.

496 (EDEL, SPED) Internship Seminar (1, R4)
The interrelationships of theory and practice in the context of experience. COREQ: BK 491.

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. (P1)

204 Oral Communication (3)
Oral communication theory and practice. PREQ: ENGL 101.
250 **Innovation and Creativity** (3)  
Developing and enhancing individual and organizational creativity and innovation.

301 **New Venture Creation** (3)  
Planning and executing the creation of a successful entrepreneurial venture.  
**PREQ:** ACCT 251, CIS 251.

293 **Topics in Business Administration** (1-6, R6)  
**PREQ:** Permission of the dean.

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.

350 **New Venture Growth** (3)  
Instituting and expanding a successful entrepreneurial venture.  
**COREQ:** 301.

393 **Topics in Business Administration** (1-6, R6)  
**PREQ:** Permission of the dean.

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.

475 **Entrepreneurial Seminar** (3)  
The role of entrepreneurial activity in driving economic and environmental turbulence and creating competitive advantage under such conditions.  
**PREQ:** 301.

480 **Independent Research** (3)  
Supervised, student initiated research project.  
**PREQ:** Permission of department head.

493 **Topics in Business Administration** (1-6, R6)  
**PREQ:** Permission of the dean.

**Graduate Courses**

589 **Cooperative Education Experience** (3)  
693 **Topics in Business Administration** (3, R6)

593 **Current Topics in Business Administration** (1-3, R10)  
779 **Continuing Research - Non-Thesis Option** (1, R4)

**Business Law (LAW)**

105 **Introduction to Law** (3)  
Study of the relationship between the individual, law and society; structure of the system for dispute resolution in a legal and social context; role that law plays in a complex society.  
**(P1)**

141 (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.

195 **Contemporary Legal Issues** (3)  
The social change through the legal environment, legal institutions in various cultures, the impact on other social institutions, and the interpretation and analysis of interrelationships.  
**(P1)**
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.

230 Legal Environment of Business (3)
Social responsibility of business; ethics, legal concepts, and legislation and administrative decisions having an impact on business.

302 Legal Research and Contemporary Legal Problems (3)
Research and study of the relationship of law to the structure of society, study of prominent court decisions reflecting changes dictated by societal movements and civil litigation. PREQ: 230.

303 Consumer Protection (3)
General products liability laws, federal and state legislation and consumer credit and reporting.

306 Women and the Law (3)
The study of the legal history of issues relating to women; case-law and legal precedent; statutory and constitutional law; and current legal issues surrounding women. PREQ: Junior standing.

315 Athletics and the Law (3)
Legal issues and litigation affecting sports.

320 Multinational Corporate Law (3)
Problems of multinational corporations in the international legal environment. PREQ: 230 or permission of instructor.

331 Business Transactions I (3)
Law of contracts; commercial paper, security interests in property, and The Uniform Commercial Code.

332 Business Transactions II (3)
Business organizations, agency law, government regulations, legal liability, and bankruptcy. PREQ: 331.

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

393 Topics in Business Law (1-3, R6)

402 Hospitality Law (3)
Legal issues and litigation affecting the hospitality industry. PREQ: 230.

403 Property and Estates (3)
Legal aspects of buying and selling real estate, federal and state taxation, and estate planning and administration.

405 Rights of the Individual (3)
Philosophical and historical aspects of individual rights, and interpretation of constitutional provisions as applied by courts in public, private, and business situations.

406 Media Law (3)
Study of legal issues which affect the media; defamation, privacy rights, advertising regulation, indecent speech; broadcast programming; and press coverage of the administration of justice.

410 Witnesses and Evidence (3)
Persuasion, evidence, and presumptions: introduction and exclusion of evidence; examination, opinions, and competency of witnesses; testimonial and constitutional privileges; pretrial communications; real, scientific, and hearsay evidence.
412 **Business Ethics and Corporate Social Responsibility Theories** (3)
Ethical theory and decision making in the market, corporation as a moral agent, ethics as a component in strategic decision making, and government regulations and fiduciary obligations. **PREQ:** Junior standing.

415 **Legal Aspects of Business Management** (3)
A capstone course involving a comprehensive study of legal considerations in developing and managing a business. **PREQ:** 230, 331, and 332.

440 **Labor and Employment Law** (3)
Legal aspects of industrial relations, arbitration, bargaining, strikes, and labor practices; employment dispute resolution and federal employment laws.

480 **Independent Research in Business Law** (3)
**PREQ:** Business law major, permission of department head.

483 **Internship in Business Law** (3, 3, 3)
**484** Supervised experience in applications of previously studied theory. **S/U grading.**

485 **PREQ:** Junior standing, 2.0 GPA, permission of department head. Minimum of 10 hours per week.

**Graduate Courses**

630 **International Law** (3)

693 **Topics in Business Law** (1-3, R6)

695 **Seminar in Business Law** (3)

**Chemistry (CHEM)**

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

132 **Introductory Chemistry** (4)
Basic chemistry: atomic structure, chemical bonding, stoichiometry, acid/base; lab introduction to experimentation. 3 Lecture, 2 Lab.

133 **Survey of Organic and Biochemistry** (4)
Survey of the major functional classes of compounds in organic and biochemistry, including structure and nomenclature, chemical and physical properties, and common uses. **PREQ:** 132 or 140. 3 Lecture, 2 Lab.

140 **Advanced General Chemistry** (4)
Bonding, thermochemistry, equilibria, acid/base principles, kinetics, and redox chemistry. Laboratory uses an inquiry based approach. **PREQ:** High school chemistry and placement into MATH 145 or 146.

171 **Inquiries Into Chemistry** (1)
A discovery-based laboratory featuring guided inquiries into chemistry using current technologies. **PREQ:** 140, permission of instructor or department head. 3 Lab.

191 **Issues in Environmental Chemistry** (3)
Study of scientific concepts and facts relating to environmental issues. Topics will include environmental ethics, air and water pollution, recycling, food production, and agricultural chemistry. (P2)

232 **Quantitative Analysis** (4)
Theory and practice of methods to quantitatively determine chemical compounds, including equilibria, titrations, redox reactions, and spectrophotometry. **PREQ:** CHEM 140, MATH 146 or equivalent. 2 Lecture, 6 Lab.

241 **Organic Chemistry I** (3)
Aliphatic and aromatic compounds of carbon; relationships between structure and reactivity. **PREQ:** 140.
242 Organic Chemistry II (3)
Continuation of 241; introductory theory of instrumentation and applications of spectral methods in structure determination. PREQ: 241.

272 Organic Chemistry Lab (2)
Synthetic organic techniques and contemporary methods of analysis including NMR, FT-IR, and GC. PREQ: or COREQ: 242. 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: 241.

330 Aquatic Chemistry (2-3)
The sources, reactions, transport and effects of chemical species in water. Topics include phase interactions, aquatic microbial biochemistry, water pollution and treatment. PREQ: 133 or 241. 2 Lecture, 3 Lab. (Lab is not available to chemistry majors).

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 Instrumental Analysis I (3)
Introduction to instrumental methods, including gas and liquid chromatography; atomic, ultraviolet/visible, infrared, and fluorescence spectroscopy; and photometric methods. PREQ: 140. 2 Lecture, 3 Lab.

371 Chemical Dynamics (2)
Measurements and data treatment of the dynamics (e.g., kinetics, thermodynamics) of chemical systems. PREQ: 370. 6 Lab.

372 Chemical Syntheses (2)
Multistep synthesis of inorganic and organic compounds. PREQ: 370. 6 Lab.

380 Research in Chemistry (2, R8)
Chemical research projects for individual students. PREQ: 2.5 GPA in major and permission of instructor. 6 Lab.

389 Cooperative Education in Chemistry (1 or 3, R15) See Cooperative Education Program.

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

432 Instrumental Analysis II (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.
161 Introduction to Organic Polymers (3)
Linear and cross-linked polymers and selected topics emphasizing relationships between structure and properties. PREQ: 370.

453 Physical Chemistry II (3)
Quantum mechanics; introduction to molecular spectroscopy and applications of thermodynamics. PREQ: 352, MATH 255, and PHYS 230. COREQ: 421.

454 (PHYS 454) Computer Interfacing (3)
Digital logic, computer design, and interfacing with laboratory instruments. PREQ: Permission of instructor. 2 Lecture, 3 Lab.

461 Environmental Chemistry (4)
Sources, reactions, transport, effects, and fates of chemical species in water, soil, air, and living environments. 3 Lecture, 3 Lab. PREQ: 352.

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 II (3) 691 Topics in Chemical Education (1-3, R9)
541 Advanced Organic Chemistry (3) 692 Topics in Inorganic Chemistry (3, R6)
542 Introduction to Organic Polymers (3) 693 Topics in Analytical Chemistry (3, R6)
553 Physical Chemistry II (3) 694 Topics in Organic Chemistry (3, R6)
554 Computer Interfacing (3) 695 Topics in Physical Chemistry (3, R6)
561 Environmental Chemistry (4) 696 Seminar (1, R3)
589 Cooperative Education in Chemistry (3, R6) 698 Research in Chemistry (3, R15)
593 Topics in Chemistry (1-3, R6) 699 Thesis (3, R9)
621 Graduate Inorganic Chemistry (3) 779 Continuing Research - Non-Thesis Option (1, R10)
652 Graduate Physical Chemistry (3) 799 Continuing Research - Thesis Option (2, R24)

Cherokee (CHER)

101 Cherokee Language and Culture (3)
Elements of understanding, speaking, reading, and writing Cherokee; concepts of grammar and culture.

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: 101.

231 Intermediate Cherokee I (3)
Review and continuation of oral and written grammar, selected readings, and lab practice may be assigned. PREQ: 132.

232 Intermediate Cherokee II (3)
Readings and discussions on Cherokee culture; emphasis on pre-removal culture and its traces in language and readings in specialized areas. PREQ: 231.

351 Phonetics and General Linguistics (3)
Introduction to linguistics; the Cherokee sound system from a phonetic and allophonic view; grammatical categories, morphology, syntax. PREQ: Permission of instructor.

Child and Family Studies (CFS)

261 Family Dynamics (3)
Interdependence between cultural values and diverse family systems in the development and function of family units.
360 Infancy (3)
Infant development during the first twenty-four months; dynamics of infant-teacher
and infant-parent interaction emphasized for typical and atypical children.

363 Child Development (3)
Physical, emotional, social, and mental development from birth through middle
childhood. 2 Lecture, 2 Lab.

389 Cooperative Education in Child and Family Studies (1 or 3, R15) See Cooperative
Education Program.

467 Perspectives in Parenting (3)
Effective child-rearing skills; review of current theories, research, and model parenting
programs.

468 Family Interpersonal Relationships (3)
Family organization and function: the family life cycle and areas of adjustment. PREQ:
261 or permission of instructor.

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

Graduate Courses
565 Day Care Management (3) 660 Child and Family Development (3)
567 Parent Education (3) 661 Contemporary Family Systems (3)
568 Families: Organization and Function (3) 693 Topics in Child and Family Studies (1-3, R6)
569 Family Gerontology (3)

Chinese (CHIN)
131 Beginning Chinese I, II (3, 3)
Elements of understanding, speaking, reading, and writing Chinese; concepts of gram-
mar; lab practice required. 3 Lecture, 1 Lab.

Clinical Laboratory Sciences (CLS)
275 Introduction to Clinical Laboratory Science (1)
Introduction to the profession for those planning a career in medical technology; emphasis on accreditation, certification, ethics, and job analysis.

300 Microscopy/Phlebotomy (1)
Electronics, optics, and principles of light applied to lab instrumentation; trouble-
shooting and preventive maintenance; and blood collection and specimen handling.
PREQ: Admission to CLS sequence. 2 Lab.

301 Analysis of Body Fluids (3)
The physiology and microscopic-chemical examination of urine, spinal fluid, semen,
and gastric constituents. PREQ: Junior standing in CLS. 2 Lecture, 3 Lab.

303 Basic Hematology (3)
Formation and function of cellular components of blood, hematological procedures,
and coagulation. PREQ: Admission to CLS sequence. 2 Lecture, 3 Lab.

304 Immunology (3)
Host-parasite relationships, formation and function of antibodies; the immune re-
sponses 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.
308 Advanced Hematology (3)
Hematological states involving classification of anemias, leukemias, enzyme deficiencies, platelet anomalies, and coagulation disorders. PREQ: 303. 2 Lecture, 3 Lab.

309 Clinical Biochemistry (3)
Clinical parameters measuring the biochemical makeup of body fluids and results of lab tests related to disease states. PREQ: CHEM 361. 2 Lecture, 3 Lab.

311 Basic Medical Microbiology (3)
Bacterial physiology as related to disease production; isolation and identification of organisms using current medical laboratory procedures. 2 Lecture, 3 Lab.

312 Advanced Medical Microbiology (3)
Mechanisms of disease production of mycobacteria, viruses, fungi, and emerging pathogens; isolation and identification of specific organisms by traditional as well as molecular diagnostic methods. 2 Lecture, 3 Lab.

389 Cooperative Education in Medical Technology (1 or 3, R12)
PREQ: HSCC 389. See Cooperative Education Program.

406 Laboratory Management (2)
Organization and administration of the clinical laboratory. PREQ: CLS major. 1 Lecture, 2 Lab.

480 Independent Study (1-2)
PREQ: Permission of instructor.

485 Clinical Practicum in Urinalysis (2)
PREQ: 301. 6 Clinic.

486 Clinical Practicum in Hematology (3-5)
PREQ: 308. 9-15 Clinic.

487 Clinical Practicum in Blood Banking and Serology (3-5)
PREQ: 306. 9-15 Clinic.

488 Clinical Practicum in Microbiology (3-5)

489 Clinical Practicum in Clinical Chemistry (3-5)
PREQ: 309. 9-15 Clinic.

Clothing, Textiles, and Merchandising (CTM)

140 Fashion Analysis (3)
The aesthetic, functional, and economic aspects of fashion apparel creation and selection.

141 Clothing Selection and Construction (3)
Principles and techniques; fitting, altering, and constructing commercial patterns. 2 Lecture, 3 Lab.

242 Textiles (3)
Construction, properties, recommended uses and care of fibers, yarns, and fabrics; applications to consumer purchasing and use of clothing and household textiles.

243 Apparel Quality Analysis (3)
Analysis of apparel products with focus on quality, performance, and cost decisions relative to product development and production; specification for materials, components, assembly, and stitchology.
245 **Dynamics of the Fashion Industry (3)**
Comprehensive survey of the scope and operation of the fashion industry.

246 **Fashion Buying and Merchandising (3)**
Fundamentals for the successful merchandising of fashion goods. PREQ: 245 or permission of instructor.

340 **Fashion in Retrospect (3)**
Aesthetic, social, political, and economic influences on the development of apparel; application of design principles to modern fashion. PREQ: 140 or permission of instructor.

342 **Apparel Production Processes (3)**
Concepts and techniques of apparel production, including selection of fabric and other garment components, analysis of fit and construction processes used at various production levels. PREQ: 242, 243 or permission of instructor. 2 Lecture, 3 Lab.

343 **Tailoring (3)**
Selection of patterns and fabrics; fitting commercial patterns and construction and pressing techniques. PREQ: 141. 2 Lecture, 3 Lab.

344 **Fashion Design Fundamentals (3)**
Applications of design principles in apparel manufacturing using flat pattern techniques. PREQ: 140, 342. 2 Lecture, 2 Lab.

346 **Merchandising Apparel for Profit (3)**
Principles and practices related to the planning and control of an apparel merchandising operation. PREQ: 246, MATH 101 or equivalent, ACCT 161 or 251.

347 **Fashion Promotion (3)**
Methods of promoting fashion merchandise and their interrelationship in the presentation of a fashion story. PREQ: 246 or permission of instructor.

389 **Cooperative Education (1 or 3, R15)**. See Cooperative Education Program.

441 **Textile and Apparel Economics (3)**
Economic and social aspects of textile and apparel production, distribution, and use. PREQ: 242, 243, 246, or permission of instructor; ECON 130.

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

445 **Fashion Product Analysis (3)**
Value analysis of the composition of fashion and home-furnishing products. PREQ: 242, 243, 347.

446 **Principles and Techniques of Fashion Retailing (3)**
Case study approach to the operation and management of fashion business enterprises. PREQ: 346, 347, MKT 301, MGT 300; or permission of instructor.

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

483 **Internship (3, 3, 3)**
Integration of theory and practice in a setting appropriate to the student’s career field. S/U grading. 9 hours per week per course. PREQ: Permission of instructor, junior standing, 2.0 GPA and written application.

493 **Special Topics (1-3, R6)**
PREQ: Permission of instructor.
Graduate Courses
545 Apparel and Home Furnishings Product Analysis (3)
546 Principles and Techniques of Fashion Retailing (3)

Communication—Core (CMCR)

140 Introduction to Communication Media (3)
Survey of the history, function, and economics of the communication industry.

150 Interpersonal Communication (3)
Basic theory and skills in interpersonal communication including gender, nonverbal, listening, and interviewing skills.

190 A User's Guide to the Mass Media (3)
Analysis of the practical, theoretical, historical, social, and cultural contexts of mass media, the techniques they use, and the impact of those techniques. 3 Seminar. (P1)

250 Public Communication (3)
Basic principles of skills in public and group communication. PREQ: ENGL 102.

301 Writing for Communication Media (3)
Elements of news, news values, basic interviewing techniques: writing principles and fundamentals: styles used in journalism, broadcasting, advertising, and public relations. PREQ: ENGL 102, CMCR 140. 3 Lecture, 2 Lab.

350 Communication Theory (3)
Survey of theoretical genres used across communication disciplines. PREQ: 140, 150.

351 Communication Research (3)
This course is an introduction to the methods and practices of communication research. Students will be required to design and conduct a research project. PREQ: 3 credits in statistics, CMCR 350.

389 Cooperative Education in Communications (1 or 3, R 9)
See Cooperative Education Program. PREQ: Completed 60 hours and permission of department head.

401 Editing for Communication Media (3)
Elements of critical thinking and analysis fundamental to the editorial process in communication media. PREQ: 301 and 350. 3 Lecture, 2 Lab.

465 Communications Ethics and Responsibilities (3)
The legal and moral responsibilities of communicators in the communication industry. PREQ: 90 or more hours.

483 Internship in Communications (3, R9)
Work experience in the communication industry. S/U grading. PREQ: Completed 60 hours and permission of department head. 9 hours per week, per 3-hour course.

494 Communication Projects (1-3, R6)
Practical experience, performance, research in debate, forensics, film, electronic and print media. PREQ: Permission of instructor.

496 Seminar in Professional Development (1)
The development and evaluation of professional credentials for entry into the communication industry.
Communication—Electronic Media (CMEM)

351 Comparative Studies in Film/TV (3)
Evaluative study of the relationship between the film and television industries; historical perspectives, techniques and impact; emphasis on the language of video. PREQ: CMCR 301 or permission of instructor. 3 Lecture, 2 Lab.

352 Writing for Broadcast (3, R6)
Writing commercials, public-service announcements, station promotions, and short educational/entertainment features for radio and television. COREQ: 354 and 355. 3 Lecture, 2 Lab.

354 Radio Production I (3)
Practical course in production of radio commercials, public-service materials, and news actualities. PREQ: CMCR 301. COREQ: CMEM 352. 2 Lecture, 2 Lab.

355 Television Production I (3)
Producing and directing various television programs and productions; emphasis on studio operations. PREQ: CMCR 301. COREQ: CMEM 352. 1 Lecture, 4 Lab.

356 Electronic Media Law and Regulation (3)
This course is intended to help students understand the major issues and regulations facing the electronic media industry. PREQ: CMCR 301.

450 Directing for the Camera (3)
The art of directing on-camera performances. PREQ: 355. 1 Lecture, 4 Lab.

451 Advanced Studies in Film and Television (3)
Advanced studies in technical analysis and sociological impact of film and television. PREQ: 351 or permission of instructor. 3 Lecture, 2 Lab.

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 and emphasis on field production, editing, and related technical/creative skills. PREQ: 355. 1 Lecture, 4 Lab.

456 Broadcast Operations (3)
Principles of management in radio, television, and cable at the local and network levels. PREQ: 356.

457 Radio and Television Programming (3)
Techniques of programming for AM, FM commercial, and FM educational radio; educational and commercial television; cable and satellite operations. PREQ: 354 or 355.

458 Broadcast Sales and Promotion (3)
Introduction to the skills involved in selling broadcast time and broadcast promotions. PREQ: 354 or 355.

459 Broadcast News (3)
Finding sources of information, developing interview techniques, and writing news for radio and television; emphasis on completing tasks under deadline conditions. PREQ: 354 or 355. 2 Lecture, 2 Lab.

493 Selected Topics in Electronic Media (3, R9)
Study in a special area of interest in electronic media.
Graduate courses
593 Selected Topics in Electronic Media (3)

Communication—Human Communication (CMHC)

201 Introduction to Speech Communication (3)
Basic principles of communication skills and theory in interpersonal, small group, and public communication. PREQ: ENGL 101. (C3)

300 Foundations of Oral Communication (3)
Required of any undergraduate who receives two oral competence condition (OCC) marks.

314 Professional Speaking (3)
Advanced principles of public communication skills as related to professional speaking. PREQ: CMCR 250

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

414 Gender Communication (3)
An examination of the communication behavior of women and men in different contexts: existing communication differences dealing with self-perception, information processing, verbal and nonverbal coding, images of women and men.

415 Intercultural Communication (3)
Nature of intercultural communication, variables of both culture and communication, and the impact on intercultural communication in our ever-changing world.

Graduate Course
593 Selected Topics (3)

Communication Training and Development (CMTD)

315 Organizational Communication (3)
Channels of oral communication in complex organizations and organizational influences on communication.

316 Communication Training and Development (3)
This course provides an introduction to the theory, methods, and techniques of communication training and development. PREQ: 315 or permission of instructor.

412 Small Group Communication (3)
Techniques for participation in small groups, roles of group leader and participant, practice in problem-solving deliberation. PREQ: 315 and 316 or permission of instructor.

413 Conflict Resolution (3)
Overview of the theories and applied techniques of conflict resolution; emphasis in acquiring specific conflict resolution skills in group, interpersonal, organizational, and intercultural contexts. PREQ: 315 or permission of instructor.

493 Selected Topics in Communication Training and Development (3, R9)
Study in a special interest in communication training and development.
Communication—Print Media (CMPM)

302 Reporting of Public Affairs (3, R6)
Advanced reporting course on selected public affairs topics. PREQ: CMCR 301.

303 Advertising and Public Relation Writing (3)
Writing persuasive messages for selected audiences in public relations, advertising and promotions, and mass media. PREQ: CMCR 301.

304 Magazine and Feature Writing (3)
Writing feature material for newspapers and magazines. PREQ: CMCR 301.

305 Sports Writing (3)
Fundamentals of sports reporting for print media. PREQ: CMCR 301.

306 Introduction to Multimedia (3)
Use of computers to present and combine text, graphics, audio, and video. 3 Lecture, 2 Lab.

402 Print Media Production (3)
Layout, design, and production for print media. PREQ: CMCR 350.

403 Association Communications (3)
The development and operation of effective communications programs for nonprofit organizations. PREQ: CMCR 401.

404 Desktop Publishing (3, R6)
The use of personal computers and peripherals to produce publications and promotional materials. PREQ: Permission of the instructor.

406 Advanced Multimedia (3)
Advanced course on use of computers to present and combine the text, graphics, audio, and video, with emphasis on creative student projects. PREQ: CMPM 306 or permission of instructor. 3 Lecture, 2 Lab.

493 Selected Topics in Print Media (3, R9)
Study in a special area of interest in print media.

Graduate courses
593 Selected Topics in Print Media (3)

Communication—Public Relations (CMPR)

360 Introduction to Public Relations (3)
The study of the management function of controlling an organization’s communication with its publics.

365 Public Relations Case Studies (3)
Analysis and critique of the theories, strategies and factors used in classic and contemporary public relations campaigns and programs. PREQ: 360.

460 Public Relations Campaigns (3)
Identification and analysis of organizational publics, the development of specific communication strategies to influence those publics, and the implementation and evaluation of those communication strategies. PREQ: 360. PREQ or COREQ: CMPM 404.
493 Selected Topics in Public Relations (3, R9)
Study in a special area of interest in public relations. PREQ: 360.

Graduate courses

593 Selected Topics in Public Relations (3)

Communication—Theatre Arts (CMTA)

102 Theatre Production: Stagecraft (1)
Hands-on participation in the construction/painting of stage scenery. 4 Lab.

103 Theatre Production: Costume (1)
Hands-on participation in the construction of stage costumes and accessories. 4 Lab.

104 The Theatre Experience (3)
Analysis of what the theatre is about, what goes on in the theatre, and what it means to be a viewer. COREQ: 104 Laboratory (Lab is required.) (PS)

130 Makeup (1)
Application of stage makeup.

131 Introduction to Theatre (3)
Survey of theatre profession for beginning majors and minors. 2 Lecture, 2 Lab.

140 Acting I (3)
Introduction to the basic principles of acting.

231 Stagecrafts I (3)
Introduction to theatre crafts and technology. PREQ: 131. 2 Lecture, 2 Lab.

270 Theatre Arts Workshops I (1-3, R6)
Practical experience: performance crews in theatre productions. PREQ: Permission of instructor. 3 lab per credit hour.

300 Dramatic Literature and Criticism I (3)
Dramatic structure, interpretation, and evaluation of masterpieces: Greek period to 1700. PREQ: 131.

301 Dramatic Literature and Criticism II (3)
Dramatic structure, interpretation, and evaluation of masterpieces: 1700 to present. PREQ: 300 or permission of instructor.

330 Makeup II (1)
Three-dimensional makeup and mask building. Project oriented, emphasis on portfolio preparation. PREQ: 130. 3 Lab.

331 Stagecrafts II (3)
Continuation of CMTA 231 with emphasis on application to production. PREQ: 131, 231.

332 Introduction to Theatrical Design (3)
Principles and practices of design as applied to theatre. Project oriented. PREQ: 331.
333 **Scenic Technology** (3)
Advanced theory and practice in technology associated with scenic construction, emphasis on preparation for supervision of a basic scene shop. **PREQ:** 332.

335 **Lighting Technology** (3)
Advanced theory and practices in technology associated with theatre lighting, emphasis on preparation for supervision of lighting crew. **PREQ:** 332.

337 **Costume Technology** (3)
Advanced theory and practice associated with costume construction, emphasis on preparation for supervision of a basic costume shop. **PREQ:** 332.

340 **Acting II** (3)
Introduction to character analysis and styles. **PREQ:** 131, 140.

341 **Acting III** (3)
Advanced scene work for theatre majors. **PREQ:** 340.

345 **Acting for the Camera I** (3)
The art of acting as it relates to the television/film environment. **PREQ:** 140 or 340. 2 Lecture, 2 Lab.

346 **Acting for the Camera II** (3)
**PREQ:** 345.

350 **Directing I** (3)
Survey and practical application of the basic theories of play directing. **PREQ:** 131, 140, 231.

351 **Directing II** (3)
Directing colloquium: production problems and solutions. **PREQ:** 350.

370 **Theatre Arts Workshops II** (1-3, R6)
Practical experience, performance, leadership portions of theatre productions. **PREQ:** Permission of instructor. 3 lab per credit hour.

389 **Cooperative Education in Theatre Arts** (1-3, R6)
See Cooperative Education Program. **PREQ:** Completed 60 hours and permission of department head.

400 **History of the Theatre I** (3)
The theatre in performance. Origins and development of theatrical forms and style through the study of acting, physical facilities, design, and the cultural milieu of the audience: Greek period to 1700. **PREQ:** 12 hours in major.

401 **History of the Theatre II** (3)
The theatre in performance. Origins and development of theatrical forms and style through the study of acting, physical facilities, design, and the cultural milieu of the audience: 1700 to present. **PREQ:** 400.

433 **Scene Design** (3)
Theory and practice in the design of stage scenery. Project oriented, emphasis on portfolio preparation. **PREQ:** 333.

435 **Lighting Design** (3)
Theory and practice in the design of stage lighting. Project oriented, emphasis on portfolio preparation. **PREQ:** 335.
437 **Costume Design (3)**
Theory and practice in the design of theatrical costumes. Project oriented, emphasis on portfolio preparation. **PREQ:** 337 or permission of instructor.

441 **Acting IV (3)**
In-depth character analysis and application. **PREQ:** 341.

483 **Internship in Theatre Arts (3, R9).**
Work experience in the theatre industry. S/U grading. **PREQ:** Completed 60 hours and/or permission of department head. 9 hours per week per 3-hour course.

486 **Theatre Production (3, R12)**
Intensive training in performance, design, or theatre technology. **PREQ:** Permission of department head.

493 **Selected Topics in Theatre Studies (1-3, R9)**
Study in a special area of interest in theatre.

496 **Seminar in Professional Development (1)**
Seminar in career preparation for the emerging professional. **PREQ:** Senior status.

499 **BFA Thesis (2)**

**Graduate Courses**
586 Theatre Production (3)
593 Selected Topics in Theatre Arts (3)

**Communication Disorders (EDCD)**

270 **Introduction to Communication Disorders (3)**
Overview of speech-language-hearing disorders in children and adults.

301 **Speech and Language Development (3)**
Speech and language development in normal children; survey of procedures and tools used to study language development and acquisition. **PREQ:** 270 or equivalent.

302 **Communication Development and Disorders (3)**
The developmental phases of content, form, and use of language; survey of techniques for use with language-disordered children; designed for nonmajors.

320 **The Clinical Process (3)**
Orientation to the roles and responsibilities of clinicians in the practice of speech-language pathology and audiology. **PREQ:** 301, 370, 471, or equivalent.

370 **Phonetics (3)**
Study of sound feature production; phonetic transcription. **PREQ:** 270 or equivalent.

371 **Articulation/Phonological Disorders (3)**
The etiology, diagnosis, and treatment of articulation and phonological disorders. **PREQ:** 301, 370, 471, or equivalent.

372 **Speech Science (3)**
Principles and concepts in speech production and perception; techniques for acoustic analysis. **PREQ:** 370 or equivalent.

450 **Introduction to Audiology (3)**
Fundamentals of audiology: the physics of sound and its measurement: aural anatomy, physiology, etiology, and pathology. **PREQ:** 372 or equivalent.
451 Sign Language I (3)
Beginning sign language skills, receptive and expressive; cultural issues.

452 Sign Language II (3)
Advanced sign language skills, receptive and expressive; cultural issues. PREQ: 451 or equivalent.

471 Anatomy and Physiology of the Speech Mechanism (3)
Study of the anatomic structures involved in speech and their function in the speech process. PREQ: 270, 370 or equivalent.

474 Voice Disorders (3)
The etiology, evaluation, and treatment of voice disorders. PREQ: 372, 471 or equivalent.

476 Language Disorders in Children (3)
Analysis of childhood language disorders; evaluation and implementation of treatment approaches. PREQ: 301, 370, 471 or equivalent.

478 Fluency Disorders (3)

485 Clinical Practicum in Communication Disorders (1, R2)
Supervised evaluation and intervention with persons exhibiting communication disorders. PREQ: 371, 476, or equivalent, and permission of clinical director; 25 hours of supervised observations of clinical experience.

494 Topics in Communication Disorders (1-3, R6)
PREQ: Permission of instructor

495 Seminar in School Practice (3)
Theory, policy, and procedures related to school-based practice. PREQ: 485 or permission of instructor.

Graduate Courses
551 Sign Language I (3)
552 Sign Language II (3)
572 Aural Rehabilitation (3)
574 Voice Disorders (3)
576 Language Disorders in Children (3)
578 Fluency Disorders (3)
594 Topics in Communication Disorders (1-3, R6)
595 Seminar in School Practice (3)
650 Clinical Audiology (3)
660 Psychology of the Hearing Impaired (3)
661 Private Practice: Design and Operation (3)
672 Language Disorders in Adults (3)
673 Neurogenic Speech Disorders (3)
674 Diagnostics (3)
675 Management of Communication Disorders (3)
676 Management of Orofacial Anomalies (3)
677 Dysphagia (3)
678 Augmentative Communication Systems (3)
679 Language Assessment and Intervention (3)
680 Communication Problems of the Aging (3)
682 Research in Communication Disorders (3)
683 Internship in Communication Disorders (1-3, R15)
695 Seminar in Articulation and Phonology (3)
696 Seminar in Language (3)
697 Seminar in Fluency (3)
698 Seminar in Voice (3)
699 Thesis (3, R6)
779 Continuing Research—Non-Thesis Option (1, R10)
799 Continuing Research—Thesis Option (2, R24)

Computer Information Systems (CIS)

195 The Information Society at Work (3)
The impact of computer and telecommunications technologies on the way we work; special focus on the individual, organizational, and societal impacts of remote work arrangements. (P1)
235 Foundations of Information Technology (3)
Architecture of modern computer systems including peripherals; data communications and networking with fault-tolerant computing; language transition; operating systems software and utilities.

240 Business Applications Development I (3)
Application of programming principles in business: flowcharting, coding, documentation, and testing; computer architecture and data representation.

251 Management Information Systems (3)
An orientation into the management of computer-based information systems for organizations and problem solving using various application software packages.

293 Topics in Computer Information Systems (1-3, R3)

301 Microcomputer Applications (3)
Hands-on experience with word processing, spreadsheet, database, presentation graphics, and the Internet. Also, hardware, e-commerce, and basic web site development.

304 Business Communications (3)
Application of written, oral, and interpersonal communication theory in business. PREQ: ENGL 102.

335 Enterprise Technology Management (3)
The development, management, and planning of information technologies in the enterprise environment. PREQ: 235.

340 Business Applications Development II (3)
The study of state-of-the-art tools and techniques for developing complex business applications; Web application development; multi-tier client-server; SQL. PREQ: 240.

389 Cooperative Education in Information Systems (1 or 3, R15)
See Cooperative Education Program.

403 Business Research and Reports (3)
Identification of research problems; collecting and analyzing data; presenting findings for decision-making.

440 Advanced Business Programming Applications (3)
Use of advanced programming techniques to solve business problems and create windows-based applications. PREQ: 240.

453 Database Management Systems (3)
Database processing and application development emphasizing design, implementation, and maintenance of single-user and enterprise-wide databases. Design and implementation of a database application. PREQ: 340.

455 Computer Information Systems Analysis and Design (3)
Object-oriented analysis and design. Object identification, problem identification, feasibility, system requirements, prototyping, design-related activities, and formal report writing. PREQ: 340.

465 Applications Development III (3)
Development of client-server business applications using enterprise-wide databases and cross platform and cross product functionality and connectivity. PREQ: 453 and 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: Senior  
485 standing, 2.0 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
605 Managerial Communication (3)  
651 Information Systems for Competitive Advantage (3)  
661 Systems Analysis and Development (3)  
662 Database Management Systems (3)  
682 Research Project in Computer Information Systems (3, R6)  
693 Topics in Information Systems (1-3, R6)

Computer Science (CS)

101 Computer Concepts (1)  
Computer applications including hands-on experience with word processing, spreadsheets, database management, and graphics.

130 Introduction to Computing (3)  
Computer Science overview: use of applications, programming, hypertext development, topics from program translation, architecture, computer networks, artificial intelligence, and social implications.

150 Problem Solving and Programming I (4)  
Problem solving and algorithm development using an object-based programming language: classes, selection, iteration, arrays, and generic classes. PREQ or COREQ: MATH 146 or equivalent. 3 Lecture, 2 Lab.

151 Problem Solving and Programming II (4)  
Object-oriented program development and elementary data structures: pointers and dynamic allocation, generic classes and inheritance, recursion, linked lists, stacks, and queues. PREQ: 150. 3 Lecture, 2 Lab.

250 Introduction to Computer Systems (3)  
The computer architecture and system call interfaces: assembly language programming; implementation of system calls; linking, exceptions, interrupt handling, and input/output. PREQ: 150. 3 Lecture, 2 Lab.

301 High-Level Languages (3, R9)  
ADA, C, PROLOG, LISP, or other languages approved by the department head. Can be repeated for credit with different languages. Elective credit for CS majors restricted to 3 hours.

303 Digital Logic (3)  
Binary systems, Boolean algebra, combinational logic, synchronous sequential logic, asynchronous sequential logic. PREQ: MATH 146 and some programming experience.

304 Digital Logic Laboratory (1)  
Laboratory experience to enhance topics from CS 303. PREQ: 303, MATH 146, some programming experience.

310 (MATH 310) Discrete Structures (3)  
Graph theory: planarity, eulerian, hamiltonian, colorings, and trees. Enumeration: permutations, combinations, binomial distribution, generating functions, recurrence relations, and inclusion-exclusion. PREQ: MATH 146. COREQ: CS 351.
320 **Computers and Society (3)**  
Brief history of computers; survey of growth of applications and current social issues to include legal issues as they relate to businesses and the individual.

340 **Introduction to Scientific Computing (3)**  
Floating-point representations, round-off errors, nonlinear equations, numerical integration, data analysis, and numerical differentiation. Survey software packages and other technology. **PREQ:** MATH 255; MATH 254 or 262; and some programming experience.

350 **Introduction to Computer Organization (3)**  
Introduction to computer arithmetic, processor organization and design, micro-programming and control unit design, memory organization, I/O organization. **PREQ:** 250.

351 **Data Structures (3)**  
Object-oriented program development and advanced data structures: recursion, analysis of execution time, sorting and searching, trees, hash tables, and elementary graph algorithms. **PREQ:** 151 and MATH 153. **COREQ:** CS/MATH 310.

352 **Organization of Programming Languages (3)**  
Language processors, data and data control, operations, sequence control, storage management, operating environment, syntax, and translation. **PREQ:** 151.

360 **Theory of Computation (3)**  
An introduction to finite automata and regular expressions, context-free languages, Turing machines, Church's thesis and recursive functions, uncomputability, and computational complexity. **PREQ:** 310 or permission of instructor.

361 **Computer Graphics (3)**  
Storage tube and raster scan graphics terminal technologies, language and data structures for graphics, 2-D and 3-D graphics and transformations; plane and space curves, surface generation. **PREQ:** 150 or 340.

363 **Software Development (3)**  
Techniques for design and construction of reliable, maintainable, and useful software systems. Software development methodologies and object-oriented design for medium and large projects. **PREQ:** CS 151 and CS 250.

370 **Operating Systems (3)**  
Concurrency (synchronization primitives and deadlock) and implementation of the operating system kernel (process management, memory management, and file systems); introduction to computer networks. **PREQ:** 250.

389 **Cooperative Education in Computing (1 or 3, R15)** See Cooperative Education Program.

393 **Topics in Computer Science (1-3, R6)**  
**PREQ:** Permission of department head.

441 (MATH 441) **Introduction to Numerical Analysis (3)**  
Finite differences, interpolation, numerical integration and solutions to ordinary differential equations, linear systems, eigenvalues, eigenvectors, errors. **PREQ:** MATH 254 or MATH 262; MATH 255; and CS 150.

443 **Automata and Formal Languages (3)**  
Phrase structure grammar, context-free languages; finite state machines, pushdown acceptors, Turing machine, recursiveness, and computability. **PREQ:** MATH 310.

451 **Algorithms (3)**  
Selected topics from the theory of algorithms. Topics may include algorithms for parallel computers, polynomials and FFT, number-theoretic algorithms, and computational geometry. **PREQ:** 351.
452 Advanced Computer Architecture (3)
Advanced topics in computer architecture including pipelining, multiple and parallel processing systems, issues in performance enhancement, data flow computers, and VLSI computations. PREQ: 350.

453 Database Systems (3)
Relational query languages (SQL), database design, normal forms, storage structures, access methods, query processing, crash recovery, transactions, distributed databases, object-oriented and multimedia databases. PREQ: 151 and 250.

455 Computer System Performance Analysis (3)
Performance evaluation of computer systems and computer networks; measurement and benchmarks, simulation, and analytical models (stochastic processes and queuing theory). PREQ: 370 and MATH 270.

460 Compiler Construction I (3)
Grammar and finite-state automata; parse trees; top-down and bottom-up parsing; LL(k) and LR(k) grammar; syntax-directed translation; term project. PREQ: 351.

462 Systems Programming (3)
Advanced implementation issues in the design of the software of computer systems with a focus on parallel and distributed systems. PREQ: 370.

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

464 Microcomputer Development (3)
Software and hardware development and interfacing for dedicated microcomputer applications. PREQ: 350 or PHYS 302 or IET 371. 2 Lecture, 2 Lab.

465 Computer Networks (3)
Protocol layers, error control, media access, routing, congestion control, TCP/IP, name resolution, socket programming, client-server, interface definition languages, component APIs. PREQ: 151 and 250.

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)

495 Capstone (3)
A seminar emphasizing social and ethical issues in computer science. The seminar includes a project with a written report and presentation that demonstrates understanding of computer science principles. PREQ: Senior standing.

Graduate Courses
552 Advanced Computer Architecture (3) 610 Computing Concepts in Programming (3)
555 Computer System Performance Analysis (3) 611 Data Structures (3)
560 Compiler Construction II (3) 612 Introduction to Computer Systems (3)
564 Microcomputer Development (3) 613 Organizations of Programming Languages (3)
565 Computer Networks (3) 614 Introduction to Computer Organization and Architecture (3)
580 Artificial Intelligence (3) 616 Applications to the Mathematics Curriculum—Grades 9-12 (3)
593 Topics in Computer Science (1-6, R6) 617 Computers in Secondary Education (3)
600 Computer Literacy (3) 618 Computer-Assisted Learning (3)
601 Logo (3) 606 Applications to the K-8 Curriculum (3)
602 Structured Basic (3) 610 Computing Concepts in Programming (3)
606 Applications to the K-8 Curriculum (3)

Counseling (COUN)

140 Study Techniques for College (1)
Study techniques and skills, motivation for learning, use of the library, reading improvement laboratory. 1 Lecture, 1 Lab.
141 Student Development and Leadership (1)
The student leadership and development class is designed to promote ethically and morally responsible, fully functioning leaders for resident assistant positions.

430 Individual and Group Counseling (3)
Principles and techniques of individual and group counseling, communication techniques, and participation in role playing and group processes.

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

Graduate Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>600</td>
<td>Individual and Group Helping Skills</td>
<td>3</td>
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<tr>
<td>601</td>
<td>Professional Orientation</td>
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<tr>
<td>605</td>
<td>The Helping Relationship</td>
<td>3</td>
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<td>610</td>
<td>Family Counseling</td>
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<td>615</td>
<td>Multicultural Counseling</td>
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<td>617</td>
<td>Substance Abuse Counseling</td>
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<td>620</td>
<td>Counseling Children</td>
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<tr>
<td>623</td>
<td>Introduction to Community Counseling</td>
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<tr>
<td>625</td>
<td>Counseling Development Perspectives</td>
<td>3</td>
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<tr>
<td>630</td>
<td>Theories of Counseling</td>
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<td>631</td>
<td>Techniques of Individual Counseling</td>
<td>1</td>
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<td>633</td>
<td>Crisis Intervention Counseling</td>
<td>3</td>
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<td>635</td>
<td>Group Methods in Counseling</td>
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<td>640</td>
<td>Measurement and Appraisal in Counseling</td>
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<td>645</td>
<td>Consultation and Collaboration</td>
<td>3</td>
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<td>650</td>
<td>Career Development</td>
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<tr>
<td>655</td>
<td>Career Counseling</td>
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<tbody>
<tr>
<td>660</td>
<td>School Counseling Program Development</td>
<td>2</td>
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<td>665</td>
<td>Implementing School Counseling Program</td>
<td>3</td>
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<td>667</td>
<td>The DSM and Effective Treatment Planning</td>
<td>in Counseling</td>
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<td>670</td>
<td>Research in Counseling</td>
<td>3</td>
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<td>680</td>
<td>Independent Study in Counseling</td>
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<td>686</td>
<td>Practicum in Counseling</td>
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<td>687</td>
<td>Internship in Counseling</td>
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<tr>
<td>695</td>
<td>Seminar in Counseling</td>
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<td>699</td>
<td>Thesis</td>
<td>3, R6</td>
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<tr>
<td>730</td>
<td>Advanced Theory and Techniques in Counseling</td>
<td>3</td>
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<td>779</td>
<td>Continuing Research—Non-Thesis Option</td>
<td>1, R10</td>
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<tr>
<td>784</td>
<td>Internship in Counseling</td>
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<td>786</td>
<td>Advanced Practicum in Counseling</td>
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<tr>
<td>799</td>
<td>Continuing Research—Thesis Option</td>
<td>2, R24</td>
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</tbody>
</table>

Criminal Justice (CJ)

190 Controversies in Criminal Justice (3)
Topical issues in criminal justice are explored and discussed in the context of political and social realities of contemporary American society. 3 Seminar. (P1)

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.

311 The Juvenile Justice Process (3)
The phenomenon of juvenile delinquency; evaluation of a unique justice system for children; related concerns, problems, and expectations. PREQ: 250.

320 The Law Enforcement Process (3)
Philosophical, historical, and operational aspects of law enforcement agencies and processes within a framework of social control in a democratic society. PREQ: 250.

330 Courts and Criminal Procedure (3)
State and federal court systems, criminal judicial process, and rights of the individual. PREQ: 250.

340 The Corrections Process (3)
Examination of modern corrections through review of penal history, theory, and practice. PREQ: 250.

352 Planning and Methodology (3)
Planning as a process of criminal justice decision making using contemporary methods and techniques.

360 Security Systems (3)
The role of private institutional security concerns. Physical security, loss prevention, technology, and the security profession are examined. PREQ: 250.
370 Ethics in Criminal Justice (3)
Examination of ethical issues in the criminal justice field. PREQ: 250.

389 Cooperative Education (1 or 3, R15)
See Cooperative Education Program. Credit will not be given for both 483 and 389.

404 Substantive Criminal Law (3)
The nature and definition of substantive criminal offenses; examination of federal and state law; principles of criminal liability, defenses, and complicity. PREQ: 250.

406 Criminal Justice Administration (3)
Procedural aspects of statutory and case law affecting the administration of law enforcement and the control of police conduct.

410 Victimology (3)
A study of the experiences of crime victims with the criminal justice system as well as victim characteristics, vulnerability, and culpability. PREQ: 250.

420 Criminal Investigations (3)
An analysis of methods used in conducting criminal investigations.

423 Criminalistics (3)
A survey of methods and techniques used in the scientific investigation of criminal offenses.

424 Community Corrections (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.

450 Violence in American Society (3)
Theories on the causation, manifestations, prevention, and treatment of violent behavior. International, national, and regional constructs of violence are discussed. PREQ: 250.

454 Comparative Criminal Justice Systems (3)
Law enforcement and correctional and court subsystems in the Western world today.

455 Criminal Justice Theory (3)
Theories of law, justice, punishment, and crime causation. PREQ: 250.

460 Drug Abuse (3)
An examination of drugs, of abuse, and the evolution of drug laws, law enforcement, and correctional responses for drug offenders.

470 Criminal Justice Policy (3)
The origins and outcomes of criminal justice policy. The role of politics, media, and bureaucracy are examined. PREQ: 250, 350.

480 Independent Study in Criminal Justice (1-3, R6)

482 Senior Directed Research (3)
Directed research/independent study in criminal justice. PREQ: 352

483 Internship in Criminal Justice (3-12, R12)
Supervised applications of academic study in a practical criminal justice setting. Credit
not given for both 389 and 483. PREQ: Junior standing; permission of instructor; 250, 320, 330, 340; and 2.0 GPA. 135 hours per 3 credits.

493 Topics in Criminal Justice (1-3, R12)  
PREQ: Approval of department head.

495 Seminar on Criminal Justice Problems (1-3, R6)  
PREQ: Approval of department head.

Graduate Courses  
524Probation and Parole (3)  
593Special Topics in Criminal Justice (1-3, R9)  
620Criminal Justice Administration (3)  
640Correctional Administration (3)  
650Criminal Justice/Criminological Theory (3)  
652Research Methods (3)  
670Criminal Justice Policy (3)  
675Ethics in Criminal Justice (3)  
680Independent Study in Criminal Justice (3, R6)

Curriculum and Instruction (EDCI)

191 The Great School Wars (3)  
An interdisciplinary examination of the ways in which public policy debates about schooling reflect ideological differences in American society. (P1)

200 Seminar in Leadership Development (1, R4)  
Leadership development through seminars with university and public-school professionals, field trips, and service projects. S/U grading. PREQ: Admission to the North Carolina Teaching Fellows program.

230 Peer Tutor Training (1, R2)  
Principles and techniques of tutoring. PREQ: Permission of instructor. 1 Lecture, 2 Lab.

231 Historical, Social, and Philosophical Foundations of Education (3)  
An introductory study of the broad historical, sociological, and philosophical aspects of education. Field experience required.

300 Seminar in Teaching and Research (1, R3)  
Leadership development through seminars, projects with mentors, and independent study. S/U grading. 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  
503Social Studies in the Secondary School (3)  
506Contemporary Philosophies of Education (3)  
601Educational Sociology (3)  
602Methods of Research (3)  
603Comparative Education (3)  
604Curriculum Development (3)  
605Foundations of Modern Education (3)  
606Statistical Analysis in Research (3)  
609Educational Tests and Measurements (3)  
611Qualitative Research (3)  
612Principles and Application of Educational Research Methods and Analysis (3)  
613The Teacher Leader (3)  
615Philosophy, History, and Sociology of Education (3)  
617Teaching & Learning in Today's Schools (3)  
618Theory in Practice in the Subject Area Classroom (3)  
689Internship in Secondary Education & Special Subjects Areas (9)  
693Topics in Education (1, R3)  
699Thesis (4)  
700Philosophy of Education (3)  
702Research Seminar in Curriculum (3)  
705Advanced Research Methods (3)  
800Issues in Rural Education (3)  
801Mega Theory: Research Review and Applications (3)  
802Program Planning and Evaluation (3)  
895Doctoral Research Seminar (3)  
979Continuing Research—Non-Thesis Option (1, R10)  
999Continuing Research—Thesis Option (2, R24)

Dance (DA)

252 Ethnic Dance (1)  
Multicultural dance activities. 2 Lab.
253 Social/Ballroom Dance (1)
  Basic steps involved in popular social and ballroom dances. 2 Lab.

254 Lyrical (1)
  Dance techniques which employ rhythmic floor work and creative styling. 2 Lab.

255 Tap (1)
  Beginning to advanced tap rhythms. Progressive and continuous perfecting of the tap
dance technique. 2 Lab.

256 Jazz (1)
  Techniques and style involved in jazz dance. 2 Lab.

257 Dance Performance (1)
  Student must be involved in approved dance company or performance group for one
  semester.

258 Dance Techniques (3)
  Foundation techniques of basic movement with strong emphasis on dance terminology,
  barre and floor work. 2 Lecture, 1 Lab.

259 Dance Appreciation (3)
  Historical/cultural aspects of dance—introduction to dance history including studies of
  choreographers, dancers, directors and productions.

301 Dance Choreography (3)
  Applications of dance technique in creative composition. Involves various types of
dance. PREQ: PE 258. 2 Lecture, 1 Lab.

302 Choreography Production (3)
  The development, presentation, and evaluation of choreographic projects designed by
  individual students. These may include theatrical, school and community involvement.
  PREQ: PE 301. 2 Lecture, 1 Lab.

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.

104 (312) Contemporary Economic Institutions (3)
  Examination of changes in Western economic institutions; interrelationships of eco-
  nomic, social, and political changes; impact of changes on decision making, economic
  policy options, and current issues.

130 Survey of Economics (3)
  Principles of micro- and macroeconomics; 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)
Descriptive and inferential statistical methods applied to managerial decision making. PREQ: MATH 135.

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 135.

303 Money, Financial Markets, and Economic Policy (3)
Financial institutions; monetary policy; central banking and nongovernmental organizations; money and capital markets; derivative instruments; European Union monetary unification. PREQ: 231, 232.

304 Business Conditions Analysis (3)
Evaluation of business indicators; techniques for analyzing current business conditions and forecasting changes in levels of national economic activity. PREQ: 231, 232, 235.

305 Public Finance (3)
Governmental expenditures; sources of revenue, public credit, principles and methods of taxation and financial administration; fiscal policy.

306 Economics of Transportation (3)
Characteristics and problems of intercity transportation modes and agencies. PREQ: Any 3 hours in economics.

307 Regional Economic Analysis (3)
Regional structure and growth; location theory, interregional income theory, factory mobility; public policy for regional development. PREQ: Any 3 hours in economics.

308 Government and Business (3)
Governmental regulation of business; evolution of control, methods, and agencies. PREQ: Any 3 hours in economics.

309 International Economics (3)
Trade patterns among nations; effects of trade on participant countries; tariffs and quotas; balance of payments, exchange rates, international monetary system. PREQ: 231, 232.

310 Natural Resource Economics (3)
Economic policy regarding renewable and nonrenewable resources; environmental and energy economics. PREQ: 130 or equivalent.

389 Cooperative Education in Economics (1 or 3, R15)
See Cooperative Education Program.

401 Comparative Economic Systems (3)
Economics under capitalism, socialism, communism, and fascism; organization of production; decision making; problems of underdeveloped nations. PREQ: Any 3 hours in economics.

403 Development of Economic Ideas (3)
Ideas of the great economists; great debates in economics. PREQ: Any 3 hours in economics.
404 Introductory Mathematical Economics (3)
Functions, graphs, calculus, and systems of equations applied to economic analysis.

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.

420 Recreation, Sport, and Tourism Economics (3)
Economic models, techniques and applications related to recreation, sport, and tourism.
PREQ: 231 or permission of instructor.

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

483, 484, 485 Internship in Business Economics (3, R9)
Work experience in business economics. S/U grading. PREQ: Junior standing, 2.0
GPA, written application, permission of department head: minimum of 10 hours per
week.

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

Graduate Courses
607 Managerial Economics (3) 682 Research Project in Economics (3, R6)
608 Business and Managerial Forecasting (3) 693 Topics in Economics (3, R6)
609 International Economics (3) 694 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) 692 Topics in Education and Psychology (2, R6)
592 Topics in Education and Psychology (2, R6) 693 Topics in Education and Psychology (3, R6)
593 Topics in Education and Psychology (3, R6) 793 Topics in Education and Psychology (3, R12)
691 Topics in Education and Psychology (1, R3)

Educational Administration (EDAD)

Graduate Course
710 (EDHE 710) Administration of Two-Year Colleges (2)

Educational Leadership (EDL)

Graduate Courses
611 Educational Organizations (3) 732 Computer Applications in Educational Admini-
612 Leadership Theory (3) stration (3)
620 School Law (3) 785 Internship in Supervision (2)
630 School Finance and Business Management (3) 795 Seminar in Supervision (2)
640 School Plant Planning and Management (2) 799 Continuing Research (2, R24)
650 School Personnel Administration (3) 800 Advanced Leadership Theory (3)
660 School-Community Relations (3) 810 Behavior and Management of Educational
680 Problems in School Administration (1-3, R3) Organizations (3)
686 School Site Internship I (3) 883 Internship in Rural School Leadership I (1-3, R3)
687 School Site Internship II (3) 884 Internship in Rural School Leadership II (1-3, R3)
693 Topics in Administration (1, R3) 885 Internship in Rural School Leadership III (1-3, R3)
705 Leadership for Educational Programs (3) 895 Advanced Seminar in Instructional Leadership (3)
720 The Politics of Educational Decision Making (3) 896 Seminar in School Law (3)
731 Policy Development and Analysis (3) 898 Doctoral Seminar in Educational Leadership (3)
899 Dissertation in School Leadership (3, R12)
Educational Supervision (EDSU)

Graduate Courses

- 605 Principles of Supervision (3)
- 615 Techniques of Supervision (3)
- 620 School-Based Instructional Leadership (3)
- 630 School Improvement (3)
- 635 Supervision of the Novice Teacher (3)
- 680 Problems in Supervision (1, R3)
- 685 Internship in Supervision (2)
- 693 Topics in Supervision (1, R3)

Electronics Engineering Technology (EET)

141 Electronic Drafting (1)
Study of drafting and graphics relating to the field of electronics. 2 Lab.

142 Electronic Fabrication (1)
Study of methods used to assemble and construct electronic circuits and equipment. 2 Lab.

231 Circuit Analysis I (4)
Fundamental electrical theory involving DC/AC circuits. Topics include series, parallel, series-parallel networks; electromagnetic theory; transient circuit analysis; introduction to AC electricity. PREQ: MATH 145, 146. 3 Lecture, 2 Lab.

232 Circuit Analysis II (4)
Fundamentals of DC/AC circuits. Topics include AC series, parallel, series-parallel circuits; analysis techniques; network theorems; resonance; and transformers. PREQ: 231. 3 Lecture, 2 Lab.

301 DC/AC Electricity (3)
Direct current and alternating current electricity. Topics include Ohm’s Law, series, parallel and series-parallel circuits, transformers and measurement techniques. Not open to EET majors. PREQ: MATH 144 or 145 and PHYS 130. 2 Lecture, 2 Lab.

302 Industrial Instrumentation and Control (3)
Control system components and applications, control diagrams, solid-state components, industrial motors and controls, programmable controllers. Not open to EET majors. PREQ: 301 or permission of instructor. 2 Lecture, 2 Lab.

311 Electronic Circuits (4)
Study of analog electronic circuits including amplifiers, regulators, and special applications. Both discrete semiconductor devices and integrated circuits are covered. PREQ: 141, 142, 232. 3 Lecture, 2 Lab.

312 Electronic Communication Fundamentals (4)
Fundamental principles of communications theory including spectrum analysis, noise, and modulation techniques. PREQ: 311 and MATH 153. 3 Lecture, 2 Lab.

331 Digital Integrated Circuits (4)
Study of combinational and sequential digital circuits using integrated circuit techniques. COREQ: 231. 3 Lecture, 2 Lab.

332 Microcontrollers (4)
Study of contemporary 8-bit microcontrollers. Microcontroller architecture, programming, and interfacing. PREQ: 331. 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.

343 Telecommunications Fundamentals (3)
An introduction to the structure and regulation of the telecommunications industry.

345 Introduction to Local Area Networks (4)
Study of local area network architectures protocols, and operating systems with emphasis on the first three levels of the OSI model. PREQ: CS 151 or equivalent. 3 Lecture, 2 Lab.
346 Wide Area Networks (3)
Study of transmission equipment, switching technologies, interconnection, and protocols associated with the telecommunications industry. PREQ: 345.

431 Microprocessors (4)
Study of microprocessor fundamentals including integrated circuit architecture, instruction sets, and programming. Interfacing 8086 microprocessor based equipment to external hardware. PREQ: CS 151, EET 331. 3 Lecture, 2 Lab.

444 Wireless Systems (3)
Application of communication theory, digital signal processing, and digital modulation to wireless systems. PREQ: 312 or equivalent.

445 Network Planning and Design (3)
An engineering approach to establishing telecommunications networks locally and globally. Communications network simulation is introduced and used to design networks. PREQ: 346.

446 Telecommunications Management (3)
A study of the technical and management issues associated with the administration of complex, highly integrated networks. A variety of hardware and software tools will be discussed. PREQ: 346.

452 Control Systems (4)
Fundamental principles of control theory and instrumentation with particular applications in manufacturing processes. PREQ: 241, 312, 341. 3 Lecture, 2 Lab.

478 Senior Design Project Proposal (1)
Research methodology, literature review, and industrial writing styles, culminating in a written report proposal for a senior project. S/U grading. PREQ: Senior standing and permission of instructor.

479 Senior Design Project (3)
Organizing, planning, and implementing a project using acceptable industrial techniques culminating in a formal written report and oral presentation. PREQ or COREQ: 478. 1 Lecture, 4 Lab.

493 Special Topics (1-3, R6)
PREQ: Permission of instructor.

Elementary Education (EDEL)

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.
313 **Literacy and Numeracy (3)**  
A study of emergent literacy and numeracy in young children from a developmental and constructivist perspective. Includes regular observation and data collection. **PREQ:** Admission to program.

314 **Kindergarten Curriculum (3)**  
Overview of models for kindergarten curriculum for typical and atypical children in the public school environment. 2 Lecture, 3 Lab.

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.

470 (BK, SPED) **Early Childhood Curriculum (3)**  
Materials, environments, and interactions for 2-5 year olds in all curricular areas including thinking and social problem solving for typical and atypical children. 2 Lecture, 3 Lab. **PREQ:** 366.

476 **Guiding Children's Behavior and Managing Classrooms (2)**  
Methods for managing classrooms and helping students from kindergarten to grade 9 develop self discipline. **COREQ:** 490, 495.

483 **Internship (4, R16)**  
Observing, planning, teaching, and evaluating young children in typical and atypical settings. **COREQ:** BK 496 or EDEL 496.

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.

488 (BK, SPED) **Internship II (3, R9)**  
Observing, planning, teaching, and evaluating young children in typical and atypical settings.
490 Supervised Student Teaching (9)
A full-time internship under university supervision. COREQ: 476, 495.

495 Seminar for Student Teachers (3)
Theory related to practice during student teaching. COREQ: 476, 490.

496 (BK, SPED) Internship Seminar (1, R4)
The interrelationships of theory and practice in the context of experience. COREQ: BK 483.

Graduate Courses

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Emergency Medical Care (EMC)

340 Introduction to Clinical Medicine (4)
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 (2)
Pathophysiology, assessment, and treatment of cardiac emergencies. PREQ: 340, 351, or permission of instructor. 2 Lecture, 1 Lab.

351 Basic ECG Interpretation (1)
ECG interpretation in the monitoring leads. PREQ: Permission of instructor.

360 Acute Fluid and Respiratory Disorders (2)

361 Advanced Emergency Medical Techniques (1)
Traditional techniques of intravenous and respiratory therapy; introduction to new techniques. PREQ: 340; HSCC 370. COREQ: 360. 3 Lab.

370 Medical Emergencies (3)
Assessment and advanced life-support for nontraumatic medical emergencies. PREQ: 340 and HSCC 370 or permission of program director.

382 Clinical Practicum I (1)
Development of clinical competency in patient assessment skills. PREQ: 340 and permission of program director. 4 Lab.

389 Cooperative Education in EMC (1 or 3, R12)
See Cooperative Education Program.
410 Trauma Management (3)
Assessment and management of traumatic emergencies, including patient access, stabilization, and transport; radio communications and use of ALS protocols. PREQ: 360. 2 Lecture, 3 Lab.

420 Maternal and Child Emergency Care (3)
Obstetrical, gynecological, and pediatric emergencies. PREQ: 340 and HSCC 370 or permission of program director.

430 Special Needs Patients (2)
Assessment and emergency care of the elderly and handicapped. PREQ: 360 or permission of program director.

445 EMC Systems Management (3)
Planning and managing an emergency medical services system. Emphasis on demand analysis, staffing, medical direction, reimbursement, capital investment, and cost control. PREQ: HSM 310.

451 Advanced ECG Interpretation (1)
Advanced electrocardiography including 12-lead ECG interpretation. PREQ: 350, 351.

452 Advanced Cardiac Life Support (1)
The American Heart Association course leading to certification in advanced cardiac life support. PREQ: 483 or permission of program director.

482 Independent Study in Emergency Medical Care (2)
PREQ: Permission of instructor.

483 Clinical Practicum II (1-4)
Experience to develop clinical competency in advanced life support assessment and skills. PREQ: 350, 360, 370. 12 Lab hours.

484 Clinical Practicum III (2)
Advanced clinical rotations in a hospital setting. PREQ: 420, 483. 8 Lab.

485 MICU Practicum (1-3)
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.

493 Topics in Emergency Medical Care (1-3, R6)

496 Senior Seminar in Emergency Medical Care (1)
Overview of current EMS practice. Examination of issues related to professionalism and scope of practice. PREQ: Senior EMC major. 2 Seminar.

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)
First semester of a year-long study. Approaches composition as a process and product. Emphasis on writing as a tool for reading, thinking, and communicating. (C1)

102 **Composition II** (3)
Second semester of a year-long study. Builds on rhetorical activities in ENGL 101, with more demanding emphasis on research methods and projects. (C1)

**Note:** ENGL 101 and 102 must be taken and passed in sequence. These courses are prerequisite to all courses in English above the freshman level.

131 **American English for Non-Native Speakers I** (3)
Prepares students for the required composition courses (101 and 102). Exceptional performance in 131 may, if criteria are met, result in a waiver for 101.

132 **American English for Non-Native Speakers II** (3)
A specialized writing and mechanic skills class providing further preparation for composition courses. Exceptional performance and satisfaction of other criteria may result in waiver of 101.

190 **Freshman Seminar in Literature** (3)
Reading and writing about literature, with emphasis on human experience and values. (P5)

191 **Freshman Seminar in Creative Writing** (3)
Allows students to explore, practice, and discuss their creative writing, with emphasis on one or more of the following: poetry, fiction, creative non-fiction, and screenwriting. (P5)

204 **The Literature of Culture** (3)
The study of a variety of non-western cultures through their literature. Emphasis on such issues as religion, gender and family, economics, and social organization. (P6)

205 **Introduction to Language** (3)
An examination of the structure and sound system of language and its impact on human behavior at the individual and group level.

206 **Literature of Place** (3)
Liberal studies of literature of place, focusing on one general location—such as Appalachia, South, West—or pairing of related places, such as urban-suburban. PREQ: 101 and 102. (P4)

207 **Popular Literature and Culture** (3)
Examines various popular literary genres, including gothic, popular romances, mysteries, westerns, science-fiction and fantasy, children's literature, film, television, and the Internet. PREQ: 101 and 102. (P4)

209 **Past Times: Literature and History** (3)
Focuses upon the relationship between literature of the past and historical events, historical documents, and the events and texts of our time. (P4)

231 **The Interpretation of Literature** (3)
An introduction to the close reading of poetry, fiction, and drama, emphasizing theme, structure and form, figurative language, and style. Introduction to major critical approaches. PREQ: 101, 102. (P4)

232 **Introduction to Mythology** (3)
The basic Greek and Roman myths: their origins, their manifestations in the great classical epics, and their variations in the works of later authors.
251 Survey of English Literature I (3)
Major periods of English literature from the beginnings through the eighteenth century, emphasizing backgrounds and styles characteristic of each period.

252 Survey of English Literature II (3)
Major periods of English literature from the nineteenth century through the present, emphasizing backgrounds and styles characteristic of each period.

261 Survey of American Literature I (3)
A survey of American literature from the beginnings through the Romantics.

262 Survey of American Literature II (3)
A survey of American literature from the early Realists to the present.

278 Introduction to Film Studies (3)
An introduction to the study of film as a means of artistic expression and as a mirror of cultural values in the twentieth century. PREQ: 102.

290 Literature and the Sacred (3)
Themes, images, and concepts of the Sacred in literature such as the Bible, myths of origin, Native American sacred stories, or Metaphysical poetry. PREQ: 101 and 102. (P4)

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 Professional Writing (3)
Career opportunities and practices in professional writing; development of professional writing and editing skills in fiction and nonfiction; preparation of manuscripts for publication.

304 Writing for Electronic Environments (3)
A course that teaches clear and coherent writing in electronic environments, including multimedia publication, web page and document design, and computer documentation, instructions, and manuals.

305 Technical Writing (3)
Writing and editing technical manuals and reports; layout and production of technical document with practice in computer applications.

306 Nonfiction Writing (3)
Writing and editing nonfiction for academic and commercial publications; specialized audience analysis; preparation of manuscripts for presentation at professional conferences. PREQ: 303 or permission of instructor.

307 Professional Editing and Publishing (3)
Advanced practicum in student’s chosen area in professional writing; editing practices and production; copyright and libel law. PREQ: 303 or permission of instructor.

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.

310 Screenwriting (3)
Introduction to writing teleplays and screenplays; preparation of original manuscripts for agents. PREQ: 303 or permission of instructor.
312 **Grammar for Teachers (3)**
The grammar of standard American English. For students who wish to pursue careers in teaching English and language arts.

333 **Introduction to Shakespeare (3)**
General survey of Shakespeare's life, times, and most popular plays.

350 **The Renaissance (3)**
Examines the Renaissance: the rise of religious debate, print culture, humanist philosophies, voyages of discovery, and the effect these had on art and literature. **PREQ:** 101 and 102. (P4)

351 **The Beats, Radicals, and Avant-Garde Literature (3)**
An examination of the literature of the Beat movement and other radical, avant-garde, and protest movements to determine how disenfranchised groups change cultural perceptions. **PREQ:** 101 and 102. (P4)

352 **The Journey in Literature (3)**
Examines literature with the journey as its focal point, both in short pieces like poems and short stories as well as in longer, epic works. **PREQ:** 101 and 102. (P4)

365 **African-American Writings (3)**
A survey of writings by African-American authors, from the earliest slave narratives through contemporary fiction and nonfiction.

367 **Appalachian Literature (3)**
A survey of the poetry, fiction, and non-fiction works from the Southern Appalachian region with particular emphasis on cultural and historical themes of the region. **PREQ:** 101 and 102. (P4)

370 **The Short Story (3)**
History and development of the short story in Western literature.

378 **Film History (3)**
An introduction to the key stages in the history of narrative film and its development as an artistic and cultural phenomenon in the twentieth century.

389 **Cooperative Education: Professional Writing (1 or 3, R15)**
**PREQ:** 303. See Cooperative Education Program.

390 **The Bible as Literature (3)**
The Bible as literature examines key portions of the Bible, exploring its array of subjects and themes, and of literary styles and genre. **PREQ:** 101 and 102. (P4)

401 **Writing for Careers (3)**
Theory and application of rhetoric in professional communication; emphasis on triad of author, subject, and audience. Practical assignments: memos, letters, resumes, reports, and persuasive messages.

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.

411 **History of the English Language (3)**
Origins and development of the English language from the beginnings to the present.

412 **Grammar for Writers (3)**
The grammar and editorial practices of standard American English. For students who wish to explore careers in writing.
414 **Fundamentals of Teaching Composition (3)**
Theoretical and practical basis for designing and teaching composition course; analysis of rhetorical, cognitive, and linguistic approaches. Practical, research-based techniques and issues. Offered every spring semester.

415 **Linguistics (3)**
Introduction to sound systems, word systems, sentence patterns; social/regional dialects; psycholinguistics, child/adult language acquisition; historical linguistics; linguistic reconstruction; neurolinguistics; pragmatics, language typology.

416 **Teaching English as a Second Language (3)**

417 **Methods for Teaching English (3)**
Methods, materials, curriculum, and trends in teaching in the secondary schools. PREQ: Admission to the teacher education program.

420 **Chaucer and His Age (3)**
Chaucer's major poetry; emphasis on *Troilus and Criseyde* and *The Canterbury Tales*; selected readings from the works of contemporaries.

421 **Fairy Tale Literature (3)**
The genre of the fairy tale: its structure and theme; its influence on children's literature as well as mainstream literature.

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 American and 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 eighteenth- and nineteenth-century novels of such writers as Defoe, Richardson, Fielding, Smollet, Austen, Scott, Dickens, Thackeray, and Hardy.

463 **American Literature Since 1945 (3)**
Post-World War II American literature and its influences from other nationalities, especially those of Latin America and Canada.

464 **Native American Literature (3)**
Ancient oral tradition and contemporary works. Perceptions of culture, environment, and time observed in "old ways" stories; how influences emerge in "new way" poetry and fiction.

467 **Film Genres (3, R6)**
An introduction to several film genres or an intensive exploration of one film genre—such as comedy, horror, science fiction, documentary, or musical.
468 Film Studies (3, R6)
Focus on a narrower area of film study, such as a specific direction, period of film history, or nationality of filmmakers.

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)
Developments in poetry, forms, and readership. Frost, Yeats, Hardy, Pound, Eliot, Moore, Neruda, Sexton, Plath, Rich, Lowell, Brooks, etc. examined in context of current criticism.

472 Modern Fiction (3)
How modern texts move away from traditionally "representational" ways of developing plot, character, setting, and point of view. Works examined in context of current criticism/theory.

473 Modern Drama (3)
Introduction to major figures of theatrical production from 1875 to contemporary; from realistic social dramas to surrealist dream plays. Includes "acting out" and field trips.

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.

478 Film as Literature (3, R6)
A focused study of common literary and/or philosophical themes, such as existentialism, romanticism, naturalism, realism, views of America, or family relationships.

479 Studies in Literature (3, R6)
Topics vary.

480 Studies in English (1-3, R6)
Independent study/directed research in English. PREQ: Permission of instructor and department head.

483 Writing Internship (3, 3, 3)
484 Practical experience in a writing-related setting. S/U grading. PREQ: 303. 9 hours per week per course.

493 Topics in Creative Writing (1-3, R6)
Study and practice of writing in a special area, e.g., the novel, drama, science fiction, juvenile literature. PREQ: 303 or permission of instructor.

494 Special Topics in Advanced American English for Non-Native Speakers (1, R6)
An advanced academic writing skills class for upper level undergraduates whose native language is not English. Focus will be both on rhetorical style and on mechanics (grammar and punctuation). Credit not applicable toward hours for graduation.

496 Seminar in Comparative Literature (3)
World literature in translation.

497 Senior Seminar in Writing (3)
Capstone course for journalism and professional writing concentrations. Minors in creative writing, journalism, and professional writing may be admitted with instructor's permission. PREQ: Senior standing.

498 Senior Seminar in Literature (3)
Capstone course for the literature concentration. PREQ: Senior standing.
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**Environmental Health (ENVH)**

**130 Environmental Health Science: Systems and Solutions (3)**
A comprehensive overview of environmental health science connecting the natural environment to human society. Exploration of environmental issues and sustainability. (P2)

**230 Introduction to Environmental Health Science (3)**
Survey of human impacts on the environment and health problems caused by environmental factors.

**310 Water Quality Control (4)**
Environmental management practices related to water pollution and water quality. PREQ: 230. 3 Lecture, 2 Lab.

**312 Solid and Hazardous Waste Management (3)**
Techniques for management and disposal of solid and hazardous waste. Pollution problems associated with solid and hazardous waste. PREQ: Environmental health major.

**320 Institutional and Residential Environment (3)**
An introduction to the basic health and safety issues in modern housing and institutional settings. PREQ: 230. 2 Lecture, 2 Lab.

**330 Food Protection and Sanitation (4)**
Principles and techniques applied to the protection of food and milk for human consumption. 3 Lecture, 2 Lab.

**340 Environmental Health Practices (3)**
Environmental protection through the study of environmental topics, control methods, and techniques to enhance practice. PREQ: 230.

**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. PREQ: 230; CHEM 133; and BIOL 292.
389 Cooperative Education in Environmental Health (1 or 3, R12)
PREQ: HSCC 389. See Cooperative Education Program.

430 Medical and Veterinary Entomology (4)
Vectors responsible for arthropod-borne diseases of medical and veterinary importance.
PREQ: Permission of instructor. 2 Lecture, 4 Lab.

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.

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.

458 Environmental Regulation and Law (3)
Basic concepts of environmental law including the workings of the justice system, the
litigation process, witness testimony, and laws. PREQ: 230 or permission of instructor.

460 Senior Seminar in Environmental Health (1)
Exploration of current issues in environmental health. PREQ: Senior status.

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, imple-
mentation, and evaluation of programs in the governmental sector.

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

483 Environmental Health Internship (3, R6)
Supervised experience in an approved clinical or environmental health facility. PREQ:
Environmental health major or permission of instructor. 9 weeks, full-time.

493 Topics in Environmental Health (1-3)
Studies in special areas of interest in environmental health. PREQ: 230; permission of
instructor.

Graduate Courses
570 Principles of Epidemiology (3) 670 Water Quality (3)
575 Environmental Program Administration (3) 671 Environmental Regulation and Law (3)
655 Hazardous Materials and Waste Management (3) 675 Loss Control through Industrial Hygiene (3)

Family and Consumer Sciences (FCS)

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 Curriculum and Materials (3)
Programs for consumer, homemaking, and occupational home economics.

317 Teaching Methodology (3)
Methods and teaching strategies for application of knowledge and skill in individual and
classroom instruction. Emphasis on discussion, simulation of function, and task roles.
PREQ: Admission to teacher education program or permission of department head.
389 **Cooperative Education** (1 or 3, R15)  
See Cooperative Education Program.

410 **Consumer Strategies** (3)  
The relationship of individuals to their natural and man-made environments and the  
interplay that shapes the functioning of families as consumers. **PREQ:** 270.

480 **Independent Study** (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 Family and Consumer Sciences** (1-3, R6)

495 **Professional Seminar** (1, R6)  
The role of professionalism in gainful employment and career advancement. **S/U grading.**

**Graduate Courses**

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<td>600</td>
<td>Professional Issues</td>
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<td>601</td>
<td>(IET 601) Vocational Education History</td>
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<td>602</td>
<td>and Philosophy</td>
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<td>610</td>
<td>(IET 610) Vocational/Technical Evaluation</td>
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<td>611</td>
<td>Designing Educational Programs</td>
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<td>620</td>
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<td>652</td>
<td>Computer Applications</td>
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<td>654</td>
<td>Creative Ergonomics</td>
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<td>Independent Study</td>
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<td>681</td>
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<td>799</td>
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<td>2, R24</td>
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**Family Studies (FS)**

262 **Introduction to Family Studies** (1)  
Introduction to the child and family studies major and profession.

321 **Family Finance** (3)  
Management of financial resources in relation to individual and family needs, goals, and  
values; consumer problems.

362 **Family Wellness** (3)  
Physical, emotional, and spiritual factors contributing to the health and well-being of  
family members and systems.

364 **Survey of Human Development** (3)  
The life span, prenatal through death; the social, emotional, cognitive, moral, and  
physical characteristics of each stage.

367 **The Adolescent in the Family** (3)  
The study of adolescent development within the context of the family.

463 **Family Life Education** (3)  
Design, implementation, and evaluation of family life education programs. **PREQ:**  
CFS 261.

464 **Family and Community** (3)  
Exploration of connections between family and community including roles and  
influences of culture, government, ethnicity, gender, and socioeconomic status.

469 **Middle and Later Life Families** (3)  
Study of older family members: their relationships, development, life adjustments, and  
Sources of assistance. **PREQ:** 364 or 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.

Special Topics (1-3, R6)
Current topics in family studies.

Child and Family Seminar (3)
Considerations of current research, professional ethics, personal and career development, child family advocacy, and the integration of knowledge with related areas. PREQ: 468.

Finance (FIN)

Introduction to Investing (3)
Fundamentals of investing in stocks, bonds, mutual funds: preserving and growing wealth.

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

Financial Management (3)
Financial analysis and planning; time-value of money; risk; leverage; capital acquisition, management and budgeting. PREQ: ACCT 161 or 251.

Introduction to Financial Planning, Risk Management, and Insurance Planning (3)
Developing, presenting and monitoring client financial plans; types of insurance; risk management.

Financial Institutions (3)
An introduction to the financial services industry: institutions, money, capital, and derivative instruments. PREQ: 305.

Cooperative Education in Finance (1 or 3, R15)
PREQ: 2.0 GPA on courses in business. See Cooperative Education Program.

Life Insurance (3)
Functions and uses of life insurance; contract analysis; legal aspects; group policies.

Real Estate Brokerage and Finance (3)

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.

Investment Strategies (3)
Investments for individuals, institutions, and business; securities and securities markets. PREQ: 305.

International Finance (3)
International financial environment, exchange rate behavior, exchange rate risk management, and multinational business asset and liability management. PREQ: 305.

Entrepreneurial Finance (3)
Problems in cash management; financing small business; problems associated with new ventures. PREQ: 305, MGT 401.
410 Retirement Planning (3)
Retirement planning: goals, strategies, implementation and employee benefits. COREQ: 305.

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

483 Internship in Finance (3, R9)
484 Work experience in finance. S/U grading. PREQ: Junior standing, 2.0 GPA, written
application, permission of department head, minimum of 10 hours per week.

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 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)

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: Pre-forestry major.

French (FREN)
101 Experiencing French and the Francophone World (3)
Students develop basic knowledge of the francophone world, and through that content,
acquire basic functional proficiency in French. (P6)

102 Experiencing French and the Francophone World II (3)
Building on their knowledge of the francophone world, students increase their basic
functional proficiency in French. PREQ: Some competency in French or consultation
with the instructor. (P6)

105 The French-Speaking World (3)
Study of French culture and its relationship to the cultures of countries and regions
where French is spoken.

110 Experiencing French and the Francophone World: Accelerated (6)
Students learn about the francophone world, acquiring basic linguistic proficiency in
French. Three credits only in Liberal Studies. 4 Lecture, 5 Lab. (P6)

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)
232 Continuation of written and oral French grammar; readings and discussions on French
culture and civilization: readings in more specialized areas: lab practice may be as-
240 Accelerated Second-Year French (6)
Continuation of 110; increased emphasis on reading, writing and the study of the culture of the francophone world. PREQ: 110 or permission of instructor. 4 Lecture, 5 Lab.

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. Does not count toward major, minor, or DFA in foreign languages. PREREQ: 232 or 240, sophomore standing; selection by faculty. 10 Lab.

304 Commercial French I, II (3, 3)
Review of vocabulary and styles used in French business letters; various aspects of French business institutions. PREQ: 232 or 240.

310 Introduction to French Prose and Poetry (3)
Introduction to French literary texts; reading and analysis of literary works. PREREQ: 232 or 240.

320 Methods of Teaching Foreign Language (3)
Methods and materials for teaching second languages in grades K-12. PREREQ: Admission to professional sequence or permission of instructor.

321 French Civilization I, II (3, 3)
Geographical, political, cultural, and historical aspects of France from its origins to the present; course division at French Revolution. PREREQ: 232 or 240. PREREQ or COREQ: 301 and 302 or permission of department head.

331 Survey of French Literature I, II (3, 3)
The main literary movements, authors, and works since the twelfth-century; course division at the eighteenth century. PREREQ: 232 or 240. PREREQ or COREQ: 301 and 302 or permission of department head.

351 French Phonetics and General Linguistics (3)
The French sound system: drill in pronunciation, articulation, intonation, and rhythm; introduction to linguistics. PREREQ: 232 or 240. PREREQ 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)
PREREQ: 301, 302. See Cooperative Education Program.

393 Special Topics in French (1-3, R6)
PREREQ: 232 or 240.

431 Studies in French Literature (3, R6)
Intensive study of an author or authors, a genre, movement, school, or literary period. PREREQ: 232 or 240. PREREQ 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. PREREQ: 232 or 240. PREREQ or COREQ: 301 and 302 or permission of department head.
452 Advanced French Conversation (3)
Discussion of selected topics, oral reports on assigned readings, situational dialogues emphasizing practical, everyday French. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.

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

Geography (GEOG)

101 Population Geography (3)
Analysis of global patterns of human population. Population composition, fertility/mortality, migration are considered. Theories of population change and environmental impacts. (P1)

103 Cultural Geography (3)
Interrelations of man, earth, and culture; the geography of race, language, religion; political and economic patterns; population growth and movements. (P6)

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$_2$ cycle, jet stream, air masses, fronts, storms; global distribution of climate. 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)

321 Geographic Information Systems (3)
Principles and methods of geographic information systems. Discussion of spatial data, analysis and display. Use of an operational geographic information system.

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

324 Introduction to Remote Sensing (4)
Interpretation and applications of remote sensing; satellite and aerial imagery, elementary photography, stereoscopic viewing, and photomapping. PREQ: 150 or permission of instructor; GEOL 150 desirable. 3 Lecture, 2 Lab.

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

389 Cooperative Education in Geography (1 or 3, R15)
See Cooperative Education Program.

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

402 Conservation of Natural Resources (3)
Quantity, quality, and distribution of resources in the United States; dilemma of increasing demand on a dwindling resource base.
424 Advanced Remote Sensing (3)
Interpretation and application of remotely sensed data on the earth’s physical and cultural environments: major project required. PREQ: Permission of instructor. 6 Lab.

440 Topics in Regional Geography (3, R12)
Physical, economic, and social aspects of the geography of a selected region (Asia, Europe, USSR, Africa, North America, Middle East, Latin America).

441 Geography of Appalachia (3)
Physical, economic, and cultural aspects of the Appalachian Region. Analysis of locational patterns of environmental and human characteristics. PREQ: Junior/senior standing.

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

460 Urban and Regional Land Use Planning (3)
Principles and practices of urban regional planning; types of planning reports; applications to North Carolina. PREQ: Permission of instructor.

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

464 Industrial Location and Community Development (3)
Measures of manufacturing; location theory; decision-making factors in the location of industry; community development planning practices. PREQ: 350 or permission of instructor.

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

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

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

495 Senior Seminar in Geography (3)
Readings in historical/philosophical foundations and currents topics in geography. Written and oral presentation of student research. PREQ: Senior standing or permission of instructor. 3 Seminar.

Geology (GEOL)

110 Environmental Geology (3-4)
Evaluation of geological phenomena that shapes the human environment: geohazards, water, environmental health, mineral and energy resources, global change. 3 Lecture, 2 Lab. (Lab is optional).

140 Investigations in Environmental Geology (3)
Class will conduct a holistic investigation of a problem in Environmental Geology using basic principles and methods of science and geology; investigation topics will vary. (P2)
150 **Methods in Geology (4)**
Topics related to earth materials and solid and surficial earth processes explored through field, analytical, and computing methods. Developing investigation and communication skills. 3 Lecture, 3 Lab. (P2)

155 **Historical Geology (4)**
Major events and changes in life forms in North American geological history; fossils, ancient environments, and geologic interpretation. 3 Lecture, 2 Lab.

191 **Geology, Landscapes, and the Human Psyche (3)**
How the physical world determines the appearance, climate, and ecology of our planet and how this physical landscape reflects a region's history, literature, and human ecology. (P2)

250 **Introduction to the Rock Forming Minerals (2)**
Descriptive mineralogy emphasizing hand specimen identification of common rock forming minerals, occurrences, associations, crystallization, and classification; includes topics in crystallography, crystal chemistry and optical mineralogy. PREQ: 140 or 150 and CHEM 132 or 140.

260 **Oceanography (3)**
Interdisciplinary study of the ocean through an examination of its physical, biological, and chemical processes. PREQ: Any 100 level biology, chemistry, or geology course.

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.

330 (PHYS 330) **Geophysics (4)**
The physics of the Earth. Topics include theory and applications of gravity, magnetics, electricity, and seismicity to environmental and tectonic problem-solving in geology. Field-oriented lab problems and applications. PREQ: PHYS 130 or 230. COREQ: PHYS 131 or PHYS 231. 3 Lecture, 3 Lab.

350 **Mineralogy II (2)**
Principles of crystallography, crystal chemistry, and phase relationships; x-ray diffraction and atomic structure; optical mineralogy and thin section identification of minerals in rocks. COREQ: 250. 1 Lecture, 2 Lab.

355 **Petroleum (2)**
Introduction to igneous, sedimentary, and metamorphic rock genesis and their environments of formation; includes hand specimen and optical identification and fieldwork. PREQ: 250. 1 Lecture, 2 Lab.

356 **Advanced Petrology (2)**
Petrogenesis of igneous and metamorphic rocks using geochemistry and phase equilibrium studies of mineral assemblages under various temperature-pressure conditions. COREQ: GEOL 355.

371 **Structural Geology (4)**
Descriptive structural geology; emphasis on outcrop and regional scale deformational features; use of maps and graphic techniques in structural analysis. PREQ: 250 and two 100 level geology courses. 3 Lecture, 3 Lab; field trips.

389 **Cooperative Education in Geology (1 or 3, R15)**
See Cooperative Education Program.
405 Hydrogeology (4)
Overview of basic principles and methods of hydrogeology with emphasis on ground-water, groundwater-surface water interactions, geologic controls, water chemistry, field investigations, and environmental problems. PREQ: GEOL/GEOG 305 or GEOL/GEOG 302 or permission of instructor.

422 Sedimentation and Stratigraphy (4)
The origin and interpretation of sedimentary rocks, the study of depositional environments, and the use of layered rocks in the interpretation and synthesis of the geologic record. Field trips. PREQ: 140 or 150 and 155. 3 Lecture, 2 Lab.

471 Tectonics (3)
History and development of tectonic concepts: geometry and kinematics of plate mosaic; evolution of modern and ancient orogenic belts. PREQ: 352, 371; or permission of instructor. 2 Lecture, 2 Lab; field trips.

491 Topics in Geology (1-3, R6)
PREQ: Junior standing, permission of instructor.

493 Special Problems in Geology (2-4, R4)
Supervised research; written and oral reports. PREQ: Permission of instructor.

495 Senior Seminar in Geology (3)
Readings in current topics in geology. Written and oral presentation of student library research. PREQ: Senior standing or permission of instructor.

499 Senior Thesis (2, R4)
An original research project culminating in a written thesis and public presentation of results. Projects may last 1 or 2 semesters. Senior standing. PREQ: Permission of instructor. 4 Lab.

Graduate Courses
505 Hydrogeology (4) 601 Earth Sciences (3)
591 Topics in Geology (1-3, R6) 602 Earth Sciences (3)
593 Special Problems in Geology (2, R4) 693 Topics in Geology (1-3, R6)

German (GER)

101 Experiencing German and The German-Speaking World (3)
Students develop basic knowledge about the German-speaking world and through that content, acquire functional proficiency in German. (P6)

102 Experiencing German and the German-Speaking World II (3)
Students build on their functional proficiency in German as they build on their cultural and real-world knowledge of the German-Speaking world. PREQ: Some competency in German or consultation with instructor. (P6)

110 Experiencing German and The German-Speaking World: Accelerated (6)
Students develop knowledge about the German-speaking world and through that content, acquire basic functional proficiency in German. Three credit hours only are applicable to Liberal Studies. 4 Lecture, 5 Lab. (P6)

190 Triumph and Tragedy Reflected in Modern German Film (3)
Modern German culture and values as seen in film. (P6)

204 A Literary Perspective on German Civilization (3)
Selected German literary masterpieces as a reflection of German civilization. PREQ: ENGL 102.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>231</td>
<td>Intermediate German I, II (3, 3)</td>
<td>Continuation of written and oral German grammar; readings and discussions on German culture and civilization; readings in more specialized areas; lab practice may be assigned. PREQ: 132 or equivalent or placement for 231; 231 or equivalent or placement for 232.</td>
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</tr>
<tr>
<td>240</td>
<td>Accelerated Second-Year German (6)</td>
<td>Continuation of 110; increasing emphasis on reading, writing and the study of Germanic culture. PREQ: 110 or permission of instructor. 4 Lecture, 5 Lab.</td>
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<tr>
<td>301</td>
<td>German for Everyday Use I (3)</td>
<td>Emphasis on communicating in realistic situations in everyday, practical German. PREQ: 232 or 240 or equivalent, or placement, or permission of department head.</td>
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</tr>
<tr>
<td>302</td>
<td>German for Everyday Use II (3)</td>
<td>Emphasis on communicating in realistic situations in everyday, practical German. PREQ: 232 or 240 or equivalent, or placement, or permission of department head.</td>
<td></td>
</tr>
<tr>
<td>303</td>
<td>Applied German Conversation (3, R6)</td>
<td>Apprenticeship in the intensive language program. Does not count toward major, minor, or DFA in foreign languages. PREQ: 232 or 240, sophomore standing, selection by faculty. 10 Lab.</td>
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<tr>
<td>304</td>
<td>Introduction to Business German (3)</td>
<td>The development of students’ communicative competence in the specialized field of German for business and economics. PREQ: 301 and 302.</td>
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<tr>
<td>310</td>
<td>Introduction to German Prose and Poetry (3)</td>
<td>Introduction to German literary texts: reading and analysis of literary works. PREQ: 232 or 240.</td>
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<tr>
<td>320</td>
<td>Methods of Teaching Foreign Language (3)</td>
<td>Methods and materials for teaching second languages in grades K-12. PREQ: Admission to professional sequence or permission of instructor.</td>
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<tr>
<td>321</td>
<td>German Civilization I, II (3, 3)</td>
<td>Geographical, political, cultural, and historical aspects of Germany; course division at the nineteenth-century. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.</td>
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<tr>
<td>331</td>
<td>Survey of German Literature I, II (3, 3)</td>
<td>Major literary movements, authors, and works since the twelfth-century; course division at the nineteenth-century. PREQ: 232 or 240. PREQ or COREQ: 301 and 302 or permission of department head.</td>
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<tr>
<td>351</td>
<td>German Phonetics and General Linguistics (3)</td>
<td>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.</td>
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<tr>
<td>389</td>
<td>Cooperative Education in German (1 or 3, R15)</td>
<td>PREQ: 301, 302. See Cooperative Education Program.</td>
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<tr>
<td>393</td>
<td>Special Topics in German (1-3, R6)</td>
<td>PREQ: 232 or 240.</td>
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<tr>
<td>431</td>
<td>Studies in German Literature (3, R6)</td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
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.

123 Health and Wellness (3)
Foundations in health/wellness. Provides students opportunities to improve wellness related skills and knowledge. Includes physical activities that integrate physical fitness into lifelong wellness. (C4)

250 First Aid and Safety Education (2)
Prevention and care of accidents and injuries, including American Red Cross training courses.

305 Current Health Problems (3)
Incidence, diagnosis, treatment, rehabilitation, and prevention of leading community health problems; addictions: individual, family, and community effects; positive mental health as a deterrent.

311 (PE 311) Measurement and Evaluation (2)
Study and use of methods of testing, measuring, and evaluating health status; statistical analysis of data.

312 Comprehensive Health Education (3)
Comprehensive health education including a philosophy and strategies for teaching comprehensive health education, and study of selected topics related to personal and community health problems. PREQ: Junior standing.

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

Health Information Management (HIM)

301 Introduction to Health Information Management (3)
Orientation to medical institutions; history of medical records; components, development, and use of health information; functions of health information departments. 2 Lecture, 2 Lab.

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: 402, 405, and 410.
310 Fundamentals of Clinical Medicine for Health Information Management (3)

389 Cooperative Education in Health Information Management (1 or 3, R12)
See Cooperative Education Program.

402 Controlling Resources in Health Information Management (2)
Application of principles of production, budgeting, and cost control in the management of health information services. PREQ: 301.

403 Health Data Collection (3)
Computing, reporting, displaying, interpreting, and analyzing healthcare statistics. Principles of applied research for the health information profession. COREQ: 495.

404 Health Information Classification Systems I (4)
Basic ICD-9-CM coding for inpatients and outpatients, coding for prospective payment. PREQ: 301. COREQ: 310. 3 Lecture, 3 Lab.

405 Health Information Classification Systems II (3)

406 Topics in Health Information Management (2)
Various current topics in HIM: projects in inservice education, data quality, and records in nonacute care facilities. COREQ: 485, 486, 495.

408 Health Care Information Systems (2)
Examines analysis, design, and implementation of automated systems for patient related and clinical data management. Additionally, overall review of the computerized patient record is accomplished. PREQ: 301. COREQ: 303.

410 Computers in Health Care (3)
Exposure to various computer systems in health care and the study of applications available to the HIM professional and the management of these systems. PREQ: 301. COREQ: 303.

412 Comparative Record Keeping and Regulations (2)
Theory and procedures for the maintenance and regulations regarding patient health records in nonacute care settings. PREQ: 301 and 484. COREQ: 403 and 406.

484 Clinical Practicum I (3)

485 Clinical Practicum II (1)
Supervised practical application of previously studied theory related to health information functions in non-acute care facilities and other healthcare related facilities. PREQ: 484; COREQ: 406, 486, 495.

486 Clinical Practicum III (3)
Supervised practical application in an acute-care facility of previously studied theory relating to supervision and management of health information department personnel and functions. PREQ: 484; COREQ: 406, 485, 495.

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: 403, 406, 412, 485, 486.
Health Sciences (HSCC)

101 Nutrition, Fitness, and Wellness (3)
Dimensions of human wellness with an emphasis on physical health. Application of skills will be encouraged, and self-responsibility will be highlighted. (1 hour supervised physical activity every other week) (C4)

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 healthcare team.

220 Medical Terminology (3)
The meaning, construction, and use of terms in the medical and health sciences; standard medical abbreviations.

231 Introduction to Health Promotion/Disease Prevention for Preschool Children (3)
An introduction to child growth and development, nutrition, and health promotion, primarily with Head Start-eligible children and their families. 2 Lecture, 2 Lab.

232 Strategies for Health Promotion/Health Maintenance with Preschool Children (3)
Emphasis on acquisition and development of skills in history taking, screening activities, and planning and participating in the health care of Head Start-eligible children. PREQ: 231. 2 Lecture, 2 Lab.

233 Practicum: Health Promotion and Disease Prevention in Preschool Programs (3)
Emphasis on application and refinement in a field setting of knowledge and skills previously learned in HSCC 231 and 232. 9 Lab.

240 Introduction to Emergency Medical Care (3)
Basic life support: assessment and care of traumatic and medical emergencies; patient stabilization; meets state First Responder requirements.

241 Basic Emergency Medical Techniques (2)
Patient assessment, CPR, airway management, splinting and bandaging, childbirth, rescue, and extrication. PREQ or COREQ: 240. 4 Lab/field.

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

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.

330 Legal and Legislative Aspects of Health Care (1-3)
The legal aspects of healthcare 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: BIOL 291, 292 and permission of instructor.

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

Graduate Courses
Graduate courses are listed in the Graduate Catalog under Master of Health Sciences (MHS).
Health Services Management (HSM)

310 Systems and Trends in Health Care Delivery (3)
Overview of theories and principles concerning health, disease, and the delivery system. Examination of emerging trends and issues and their relationship to the delivery system. PREQ: Health sciences major or permission of instructor.

320 Human Resource Management in Health Care Agencies (3)
Selected knowledge and skills related to recruiting, interviewing, selecting, training, and evaluating human resources in healthcare agencies.

440 Quality Management in Health Care Agencies (3)
Quality management terminology, methodology, principles, and selected case studies utilized in healthcare agencies as a vehicle for organizational research. Introduction of managed care. PREQ: Health sciences major or permission of instructor.

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.

470 Research Methodology and Analysis in Health Science (2)
Overview of methodology and analysis for inquiry in health sciences, designed to prepare health sciences majors for assessing and conducting research. PREQ: MATH 170 or PSY 251 or ECON 235.

471 Research Project (1, R2)
Completion of a research study where the student works independently under the direction of a faculty adviser, within their discipline, in conducting and documenting research. PREQ: 470.

493 Special Topics (1-3)

Graduate Courses
Graduate courses are listed in the Graduate Catalog under Master of Health Sciences (MHS).

Higher Education (EDHE)

431 Foundations of Adult Education (3)
Historical, sociological, psychological, and philosophical foundations of adult education; the nature and characteristics of adult learners; review of research.

Graduate Courses
531 Foundations of Adult Education (3) 693 Topics in Higher Education (1, R3)
605 The Two-Year College (3) 695 Seminar on the Two-Year College (2)
610 Two-Year College Instruction (3) 710 (EDAD 710) Administration of Two-Year
636 Two-Year College Curriculum Development (3) Colleges (2)
683 Internship: Two-Year College Administration I (2) 783 Internship: Two-Year College Administration II (2)
686 Practicum in Two-Year College Teaching (2)

History (HIST)

105 (305) History of Modern Western Civilization (3)
Western civilization from the Renaissance through the twentieth-century against the background of classical civilizations and the medieval period.

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

107 (307) World Cultures in Historical Perspective (3)
Comparison of Western culture and non-Western cultures; historical developments and their impact on the modern world.
141 Turning Points in American History: Paths Taken and Rejected (3)
Exploration of one or several major turning points in American history. (P3)

142 Lunatics, Dreamers and Ordinary People: Biography in American History (3)
A study of one or several individuals influencing or influenced by American history. (P3)

151 Turning Points in European History: Paths Taken and Rejected (3)
Exploration of one or several major turning points in the history of Western Civilization. (P3)

152 Lunatics, Dreamers and Ordinary People: Biography in European History (3)
A study of one or several individuals influencing or influenced by the history of Europe. (P3)

190 Freshman Seminar (3)
Exploration of various topics in American, European, and Third World history using the seminar method. (P3)

221 European History to 1648 (3)
Social, cultural, economic, and political developments that shaped European civilization from earliest times through the Reformation. (P3)

222 European History Since 1648 (3)
Social, cultural, economic, and political developments that shaped European civilization since the Reformation. (P3)

231 American History to 1865 (3) (P3)

232 American History Since 1865 (3) (P3)

297 Sophomore Seminar (3)
Historical methods, historiography, and directed research.

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

313 The Medieval World (3)
Europe from the founding of Constantinople to the late medieval period. (P3)

317 History of Twentieth-Century International Relations (3)
Paris Peace Conference and aftermath: failure of League of Nations; World War II and the Cold War; emergence of the Third World; the Common Market. (P3)

322 British History to 1603 (3)
Ancient and Roman Britain; Anglo-Saxon society; the Middle Ages; Reformation and Tudor government and society: emphasis on England but includes Celtic history. (P3)

323 British History Since 1603 (3)
Constitutional struggles of the seventeenth-century; the age of aristocracy; industrial transformation and nineteenth-century growth and reform: rise of the welfare state. (P3)

327 Modern Russia (3)
The pre-revolutionary background and the Soviet period. (P3)

330 Modern Germany (3)
Germany from 1815 to the present, with emphasis on development in the nineteenth and twentieth-centuries in terms of political evolution and international situation. (P3)
341 North Carolina History (3)
The social, political, economic, and ethnic history of North Carolina from the colonial era to the present. (P3)

361 Latin American History I (3)
Indian civilizations; Spanish and Portuguese exploration; the conquistadores; colonial life; consolidation and maturity of empire; influence of the Enlightenment. (P3)

362 Latin American History II (3)
Revolutions; independence; struggle for political stability; popular government on trial; contests of hegemony; rise of indigenous nationalism. (P3)

370 Early China (3)
A chronological introductory survey of all aspects of traditional Chinese society from prehistory to the end of the 1700s.

371 Modern China (3)
Late Imperial China and the Nationalist and Communist revolutions. (P3)

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

411 Western Imperialism, 1500 to the Present (3)
Western imperialism in Americas, 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.

425 Modern European Military History (3)
Focuses on the era of the two World Wars (1914-1945), emphasizing political, technological, and operational issues.

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, 1877-1929 (3)
Growth and conflict of organized industry and labor: agrarian decline and revolt; American Imperialism; progressive reform; World War I; postwar crises and prosperity.

436 The United States Since 1929 (3)
Great Depression; New Deal; World War II; role as Cold-War superpower; domestic developments.

442 African American History (3)
Role of African Americans in American history; African background: religious, cultural, economic, and political institutions, civil rights, struggles, tension between assimilation and 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 twentieth-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.

448 The American West (3)
Explores the history and literature of the trans-Mississippi West from the time of discovery through the present, emphasizing the period since 1800.

451 American Women's History (3)
Role of women in American history: conflicting and changing ideologies of femininity and sexuality; women in the family, workplace, and politics.

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

463 History of the Mexican Nation (3)
Mexico since 1810; nineteenth-century conflicts; revolution, 1910-1917; progress to the present.

471 Introduction to Public History (3)
Explores such topics as museum displays, reenactments, historical pageants, historic preservation, living history, interpretations, and public policy.

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.

474 Introduction to Oral History (3)
Explores the uses of oral history, its relationship to other research techniques, the components of interviewing, and the field's numerous ethical, legal, and archival issues.
475 **Historical Editing (3)**  
Analysis of manuscripts, government documents, and transcripts of oral testimony; emphasis on evaluation, selection, transcription, and annotation of materials and completion of an editorial project. Lecture and fieldwork.

478 **Historic Sites and Historic Preservation (3)**  
Aspects of historic preservation; emphasis on aesthetic, legal, financial, and public relations considerations. Lecture and fieldwork.

483 **Internship Project in History (3, 3, 3)**  
Work experience on historical problems; written assignments required. S/U grading.  
485 9 hours per week per course.

493 **Topics in History (1-3, 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: 297 or permission of department head.

### Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>511</td>
<td>Western Imperialism, 1500 to the Present (3)</td>
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<tr>
<td>512</td>
<td>Early Modern Europe (3)</td>
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<tr>
<td>513</td>
<td>Europe in the Eighteenth-Century (3)</td>
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<td>514</td>
<td>Europe in the Nineteenth-Century (3)</td>
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<td>516</td>
<td>Europe in the Twentieth-Century (3)</td>
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<tr>
<td>525</td>
<td>Modern European Military History (3)</td>
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<tr>
<td>531</td>
<td>Colonial America, 1492-1763 (3)</td>
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<td>532</td>
<td>The Revolutionary Era, 1763-1800 (3)</td>
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<td>Civil War and Reconstruction, 1848-1877 (3)</td>
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<td>536</td>
<td>The United States Since 1929 (3)</td>
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<td>542</td>
<td>African-American History (3)</td>
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<td>543</td>
<td>The American South (3)</td>
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<td>545</td>
<td>Cherokee History (3)</td>
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<td>History of the Mexican Nation (3)</td>
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<td>Local History and Genealogy (3)</td>
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<td>Archives and Museum Management (3)</td>
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<td>Introduction to Oral History (3)</td>
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<td>Historical Editing (3)</td>
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<td>Historic Sites and Historic Preservation (3)</td>
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<td>Cooperative Education in History (3)</td>
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<td>Topics in History (1-3, R12)</td>
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<td>American Historiography to 1900 (3)</td>
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<td>Readings in History I (3, R6)</td>
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<td>Problems in American History (3, R9)</td>
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<td>Seminar in American History and American Studies (3)</td>
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<td>Thesis (3, R12)</td>
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<td>Continuing Research—Non-Thesis Option (1, R10)</td>
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<td>Continuing Research—Thesis Option (2, R24)</td>
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### Hospitality Management (HM)

130 **Introduction to the Hospitality Industry (3)**  
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.

335 **Lodging Management (3)**  
Functions of management applied to lodging operations; emphasis on procurement, principle, and techniques in hotel room division management. 2 Lecture, 2 Lab. PREQ: 130.

336 **Club Management (3)**  
Course will include a study of organization administration, operations, and opportunities within the private club industry with emphasis on the club manager's duties.
338 Computer Applications in the Hospitality Industry (3)
Application of computer technology in the hospitality industry. PREQ: 335. COREQ: 333.

339 Cost Control in the Hospitality Industry (3)
Theories and techniques of controlling costs of food and beverage, and labor cost in hotels and restaurants; analysis and evaluation of financial performance of the settings. PREQ: ACCT 161 or 251.

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

430 Food Systems Management (3)
Functions of management applied to food service systems; emphasis on food service equipment, layout and design, menu development, procurement, and production management. PREQ: 333. COREQ: MGT 300.

431 Hospitality Marketing Management (3)
Application of marketing principles and practices in the hospitality industry; emphasis on consumer behavior, market analysis, marketing mix. PREQ: 333, 335, MKT 301.

433 Strategic Planning in the Hospitality Industry (3)
Application of theories and concepts of strategic management in hospitality management; cases in hospitality industry, domestic and multinational, are analyzed. PREQ: 335, 339, 430, and 431.

480 Independent Study (1-3, R6)

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student’s career field.
485 S/U grading. PREQ: Permission of instructor. 9 hours per week per course.

493 Topics (1-3)

Graduate Courses
532 Food Systems Management II (3)

Human Resource Development (HRD)

Graduate Courses
589 Cooperative Education in Human Resource Development (3)
605 Orientation to Human Resource Development (3)
610 Human Resource Development (3)
612 Instructional Design (3)
620 The Design and Use of Instructional Gaming Simulations (3)
660 Career Development/Management Systems (3)
670 Program Evaluation (3)
675 Managing the Human Resource Development Function (3)
683 Field Experience in Human Resource Development (3)
693 Topics in Human Resource Development (3, R6)
698 Seminar in Human Resource Development (3)
779 Continuing Research—Non-Thesis Option (1, R10)

Industrial Distribution (ID)

230 Industrial Distribution (3)
The flow of industrial goods and services through the industrial distributor.

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

370 Product Management and Inventory Control (3)
The study of the many aspects of industrial distribution product management. Topics to be covered may include computer systems and their uses, purchasing, and warehouse management. PREQ: 230 or permission of instructor.
389 Cooperative Education in Industrial Distribution (1 or 3, R15)
See Cooperative Education Program.

479 Industrial Distribution Seminar (3)
Covers through research, lecture and field trips, electronic data interchange; just-in-time distribution; distribution finance; bar coding; take-offs and quotes from catalogs and specifications; other innovative concepts. PREQ: 230, 360 or permission of instructor.

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

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

Industrial and Engineering Technology (IET)

151 Computer-Aided Drafting with AutoCAD (3)
Fundamentals of computer-aided drafting using AutoCAD. Topics include basic commands, files, drafting commands, printing, plotting, and two-dimensional projects related to facilities layout. 2 Lecture, 2 Lab.

152 (IDSN 152) Architectural Drafting and Design (3)
Designing and drawing a complete set of residential plans; dimensioning; sections and details; elevations; schedules; concepts and techniques of house construction; and surface treatments. PREQ: 151 or permission of instructor. 6 Studio.

190 Technology Systems (3)
A study of technology systems and processes in order to develop an understanding of the history and impact of technology systems on individuals, the environment, society, and the global community. (P1)

310 CADD for Interior Design (3)
Computer-aided drafting for interior designers; applications of AutoCad and PowerDraw software to produce two-dimensional drawings. PREQ: 152, IDSN 253; satisfaction of computer literacy requirement; or permission of instructor.

342 (IDSN 342) Architectural Construction Process (3)
Principles of HVAC, plumbing, electrical, building materials and construction techniques, and working with codes. PREQ: IDSN 152. 6 Studio.

352 (IDSN 352) Architectural Detailing and Design (3)
Casework, furniture, and architectural detailing and design. PREQ: 152, 342. 6 Studio.

353 Orthographic Rendering and Design (3)
In-depth experiences in axonometric drawing and rendering; completing orthographic rendering of residential house plans; expanding plumbing plans, skylighting, and use of alternate building materials. PREQ: 151, 152 or permission of instructor.

389 Cooperative Education in Industrial Technology (1 or 3, R15)
See Cooperative Education Program.

409 History and Philosophy of Vocational Education (3)

410 Topics in CADD (3, R6)
Advanced applications using state-of-the-art CADD programs, operating systems.
hardware configurations, and operational procedures. PREQ: MET 231 or IET 310 or permission of instructor.

420 Polymer Technology (4)
Industrial fabrication techniques; topics in polymer science and mold construction. 3 Lecture, 2 Lab.

421 Ergonomics (3)
Theories and applications of ergonomic principles for the workplace. Topics include ergonomic tools, standards, guidelines, training programs, case studies, work site analysis, common occupational injuries. PREQ: Junior standing or permission of instructor.

422 Advanced Polymer Technology (3)
Theory and application of molding processes; emphasis on thermoplastic and thermoset injection: topics in polymer science and microprocessing.

424 Facilities Management and Maintenance (3)
Introduction to management and maintenance of residential, commercial, and industrial building systems. Systems for heating, cooling, electrical, communications, water, waste water, protective coatings, and roofing. PREQ: Junior standing.

430 Occupational Analysis and Course Construction (3)
Principles and techniques of selecting, analyzing, and arranging teaching activities.

432 Shop/Laboratory Organization and Management (3)
Supplies, equipment, safety; development of a planned facility for industrial/vocational education. Typically offered in fall semester of years with even numbers. PREQ: Permission of department head.

434 Plant Layout (3)
Problem analyses and design of plant facilities; plant layout, material flow, and handling; physical storage systems. PREQ: Technology major and senior standing.

435 Technology and Civilization (3)
The interdependence of society and technology; modern industrial processes; use of energy and material resources; pollution; population explosion; food supplies.

436 Cooperative Vocational Education (3)
Preparation for teachers seeking certification; emphasis on needs of trade and industrial teachers. PREQ: permission of instructor.

437 Student Organizations in Vocational Education (3)
Techniques of planning and advising organizations.

472 Automated Systems (3)
Electronic sensing, logic, and control functions applied to automated systems. PREQ: IET 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 adviser and instructor.

493 Special Topics (1-3, R6)
PREQ: Permission of instructor.
Graduate Courses
510 Topics in CADD (3, R6)
514 (HE 514) Career Exploration (3)
521 Ergonomics (3)
522 Advanced Polymer Technology (3)
524 Facilities Management and Maintenance (3)
534 Plant Layout (3)
560 Industrial Materials and Processes (3)
570 Advanced Electronics (3)
589 Cooperative Education in Industrial Technology (3, R6)
593 Topics in Indust. and Engineering Tech. (1-3, R6)
602 (FCS 602) Vocational Education History and Philosophy (3)

603 Applied Research and Design of Experiments (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)
650 Program Planning in Vocational/Technical Education (3)
680 Independent Study (3, R6)
695 Seminar in Industrial and Engineering Technology (1-3, R3)
699 Thesis (3, R6)
779 Continuing Research—Non-Thesis Option (1, R10)
799 Continuing Research—Thesis Option (2, R24)

Industrial Technology (IT)

335 Industrial Safety (3)
Standards and practices for industrial and educational safety related to local, state, and federal safety regulations.

336 Environmental Instrumentation (3)
Basic instrumentation techniques used to measure industrial safety and health hazards. PREQ: 335. 2 Lecture, 2 Lab.

337 Management of Safety Systems (3)
Comprehensive, organized management approach for identifying, measuring, and reducing operational errors leading to accidents. PREQ: 335.

338 Fire Control and Compliance Management (3)
Emergency planning, compliance with standards, recognition of fire hazards, implementation of controls, and extinguishing agents and methods. COREQ: 335.

370 Electricity (3)
Direct and alternating current sources, circuits, circuit analysis. PREQ: MATH 144 or 145, PHYS 130. 2 Lecture, 2 Lab.

371 Electronics (3)
Solid state devices, power supply, amplifiers, and logic circuits. PREQ: 370 or EET 301. 2 Lecture, 2 Lab.

423 Fluid Systems (3)
Basic fluid mechanics; hydraulic and pneumatic systems used in industrial manufacturing processes. PREQ: MATH 144 or 145, PHYS 130. 2 Lecture, 2 Lab.

495 Industrial Technology Seminar (3)
Trends, issues, and selected topics pertinent to industrial operations and practices. PREQ: Industrial technology major and senior standing.

Interior Design (IDSN)

152 (IET 152) Architectural Drafting and Design (3)
Designing as drawing a complete set of residential plans; dimensioning; sections and details; elevations; schedules; concepts and techniques of house construction; and surface treatments. 6 Studio.

153 Introduction to Interior Design (2)
Study of principles and elements of design as applied to interior environments and creative problem solving.
251 History of Furniture and Design I (3)  
Survey of art, architecture, and furniture from ancient time to the nineteenth century.

252 History of Furniture and Design II (3)  
Development of art, architecture and furniture from nineteenth century to the present.

253 Space Planning (3)  
Evaluation of principles and elements of universal design as related to residential/commercial floor plans and spatial models. PREQ: 152 and 153 or permission of instructor. 6 Studio.

255 Perspective Drawing (3)  
Application of free-hand and technical drawing as related to rendering techniques of interior and exterior spaces. PREQ: 152, 153, ART 132 or permission of instructor.

256 Survey of Interior Materials (3)  
Analysis of manufacturing process, source, specification, and application of interior materials. COREQ: 153 or permission of instructor.

257 Lighting Design and Color (3)  
Survey of natural and artificial lighting, sources, physiological and psychological response to light and color. Application of light and color to residential/commercial interiors. PREQ: 152, 253. 6 Studio

258 Residential Design I (3)  
Fundamentals of interior planning with emphasis on the social, private, and work areas of various residential environments. PREQ: 253. 6 Studio.

310 CADD for Design (3)  
Advanced application of design problem solving. PREQ: IET 151 or permission of instructor. 1 Lecture. 6 Studio.

342 (IET 342) Architectural Construction Process (3)  
Principles of HVAC, plumbing, electrical, building materials and construction techniques, and working with codes. PREQ: 152. 6 Studio.

352 (IET 352) Architectural Detailing and Design (3)  
Casework, furniture, and architectural detailing and design. PREQ: 152, 342. 6 Studio.

353 Residential Design II (4)  
Fundamentals of interior planning with emphasis on residential environments: design methodology, floor plans, spatial concepts, elevations, material application and presentation. PREQ: 258. 6 Studio.

357 Contract Design I (3)  
Fundamentals of interior planning with emphasis on commercial/institution environments, design methodology, floor plans, spatial concepts, elevation material application and presentation. PREQ: 353. 6 Studio.

389 Cooperative Education in Interior Design (1 or 3, R15)  
See Cooperative Education Program.

451 Kitchen and Bath Design I (3)  
A focus beyond the elementary level on building construction related to kitchen design industry standards, design and layout, and presenting, selling, and installation. PREQ or COREQ: 353 or permission of instructor. 2 Lecture, 2 Lab.

452 Kitchen and Bath Design II (3)  
A focus beyond the elementary level on building construction related to bath design industry standards, design and layout, and presenting, selling, and installation. PREQ or COREQ: 353 or permission of instructor. 2 Lecture, 2 Lab.
455 Senior Research (2)
Supervised project directed toward a topic selected in consultation with the instructor. PREQ: 310, 357.

456 Contract Design II (3)
Comprehensive application of facility management and programming as related to commercial and/or institutional projects. PREQ: 357. 6 Studio.

457 Senior Project (2)
Application of senior research project. PREQ: 455. 4 Studio.

458 Professional Practice in Interior Design (3)
Methods of organizing and marketing design services; use of business forms and contracts. PREQ: 456.

460 Problem Solving in Design (3)
Creative problem solving provides an opportunity to apply advanced design concepts and/or theories in a specific area of study. PREQ: 258 or permission of instructor. 6 Studio.

480 Independent Study in Interior Design (1-3, R6)
PREQ: Permission of instructor.

483 Internship (3, 3, 3)
484 Integration of theory and practice in a setting appropriate to the student’s career field.
485 S/U grading. PREQ: 357, 358; or permission of instructor. 9 hours per week per course.

493 Topics in Interior Design (3, R9)
Examination of current topics and trends in interior design. PREQ: Permission of instructor.

International Business (IBUS)

480 Independent Research (3)
Three individual conferences.

483 Internship in International Business (3)
484 Ten hours per week of work.
485

488 Study Abroad (3-15, R30)
Participation in WCU study abroad exchange program.

493 Topics in International Business (1-3, R6)
Permission of department head.

Graduate Course
693 Topics in International Business (3, R6)

Management (MGT)

300 Introduction to Management (3)
Principles, issues, and practices of managing in modern organizations. COREQ: HM 430 for HM majors.

301 International Management (3)
Managerial functions and skills applied to the international business environment. PREQ: 300.
302 Labor-Management Relations (3)
Critical roles of labor unions; legislative bodies and government regulations; negotiation of collective bargaining agreements and dispute resolution. PREQ: 300.

304 Human Resource Management (3)
Staffing, training, evaluating, and rewarding employees; developing and implementing effective personnel programs. PREQ: 300.

305 Quantitative Business Analysis (3)
Models for decision-making in organizations, including forecasting, network analysis, queuing theory, and simulation. Problem-solving, total quality management and statistical process control are also introduced. PREQ: ECON 235. COREQ: 300.

306 Behavioral Science in Organizations (3)
Examination of individual and collective human behavior in organizations. PREQ: 300.

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

400 Organization Theory (3)
Structure and process at the organizational level; size, complexity, formalization, goals, centralization and decentralization, and environment. PREQ: 306.

401 Small Business Management (3)
Operations and strategies of small firms; integration of functional areas; economic, social, political, technological, and governmental factors. PREQ: 300 or permission of instructor.

402 Production and Operations Management (3)
Management processes for the creation of products and services; analytical techniques and controls. PREQ: 305.

405 Compensation Management (3)
Design of compensation systems based on economic, behavioral science, and public policy models. PREQ: 304.

407 Interpersonal Behavior (3)
Managerial interpersonal relationships, listening behavior, self-awareness. PREQ: 300.

480 Independent Research (3)
Supervised, student initiated research project. PREQ: Permission of department head.

483 Internship in Management (3, 3, 3)
Supervised work or research in applications of previously studied theory. S/U grading.
PREQ: Junior standing, 2.0 GPA, written application, permission of department head. Minimum of 10 hours per week.

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

495 Seminar in Management (3)
Integration of management concepts; development of management knowledge and skills; preparation for the professional world of work. PREQ or COREQ: All management business core and management major courses.

Graduate Courses

605 Organizational Behavior and Analysis (3)
606 Quantitative Analysis for Business I (3)
607 Strategic Management (3)
608 Human Resource Administration (3)
609 The Collective Bargaining Process (3)
611 Production and Operations Management (3)
613 Management of International Operations (3)
614 Managerial Career Development (3)
682 Research Project in Management (3, R6)
693 Topics in Management (3, R6)
321 Statics and Strength of Materials (3)
Study of forces and the effect of forces acting on static bodies, including the stresses and deflections or deformations from applied loads. PREQ: 132; MATH 146; PHYS 130.
2 Lecture, 2 Lab.

331 Quality Control I (3)
Techniques for monitoring and assuring quality. PREQ: 141 and MATH 170; or permission of instructor.

332 Quality Control II (3)
A continuation of MET 331 with emphasis on probability distribution, sampling, advanced control charting, reliability, and design of experiments. PREQ: 331 and MATH 170; or permission of instructor. 2 Lecture, 2 Lab.

341 CNC Machining Technology (3)
Programming, procedures, formats, standards, and protocols commonly used in the control of industrial machine tools. PREQ: 231, 242, and MATH 146. 2 Lecture, 2 Lab.

342 Manufacturing Analysis and Planning (3)
Analysis of manufacturing system efficiency. Throughout calculation, identification of bottlenecks, inventorying systems, production systems. PREQ: 141; MATH 170.

366 Manufacturing Materials and Processes (3)
Study of the nature, composition, and structure of various materials used in manufacturing. Materials include ferrous and nonferrous metals, polymer, ceramics, wood, and fibers.

393 Topics in Engineering Technology (1-3, R9)

431 Automated Manufacturing (3)
Automated manufacturing systems, strategies, and methods commonly used in modern manufacturing. Emphasis on control methods and computer integration. PREQ: 231, 342 and EET 302 and CS 130; or permission of instructor. 2 Lecture, 2 Lab.

436 Engineering Economic Analysis (3)
The study of economics as applied to engineering decision making. PREQ: 342 and MATH 144 or 145; or permission of instructor.

441 Fluid Power and Systems Analysis (3)
The study of hydrostatic fluid power components and systems specifically focused on industrial and manufacturing applications. PREQ: 231 and PHYS 130 and MATH 153; or permission of instructor. 2 Lecture, 2 Lab.

463 Manufacturing Planning and Cost Estimating (3)
Correlation of design and manufacturing requirements; planning manufacturing operations for parts and assemblies; time/cost estimates. PREQ: ID 130.

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. COREQ: 479.

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.
Graduate Courses

536 Engineering Economic Analysis (3)
641 Quality Assurance (3)
642 Automated Manufacturing Systems (3)
648 Manufacturing Research and Analysis (3)

Marketing (MKT)

301 Principles of Marketing (3)
Principles, issues, and practices of marketing to both consumers and businesses in the domestic and global economies.

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.

306 Introduction to Professional Selling (3)
Sales persuasion skills, theories, and principles; simulated selling situations.

310 Consultative Selling (3)
Building long-term customer relationships through consultative selling, delivering customer value, and satisfying customer needs. PREQ: 306 or permission of instructor.

389 Cooperative Education in Marketing (1 or 3, R15)
See Cooperative Education Program.

403 Advertising Management (3)
Planning and production of a professional advertising campaign. PREQ: 302 or permission of instructor.

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)
Nonmarketing majors and minors only. Marketing decision making studied from the managers viewpoint; emphasis on market analysis, planning, and strategy development. PREQ: 301.

406 Channels of Distribution (3)
Theory and concepts in channel management; emphasis on structural, operational, and leadership decisions. PREQ: 301.

407 International Marketing (3)
Problems, opportunities, and strategies in an international marketing environment; trade concepts and theories; cultural, political, legal, and financial constraints. PREQ: 301.

409 Relationship Marketing and Negotiation (3)
Focuses on the evolution of relationship marketing, interpersonal and group relationship development, and negotiation skills.
410 Advanced Professional Selling (3)
Applications oriented role-plays and real business setting assignments and exercises to build skills and experience. PREQ: 310 or permission of instructor.

420 Sales Management (3)
Managing salespeople: selecting, training, motivation, compensation, territory design, quota development, customer relationships.

475 Marketing Strategy and Management (3)
Marketing majors and minors only. A capstone course that integrates the collection of individual marketing concerns into a managerial decision making framework. PREQ: 301 and 9 hours of required marketing courses.

482 Independent Study (1-3, R6)
Supervised, student initiated project. PREQ: Permission of instructor and department head.

483 Internship in Marketing (3, 3, 3)
Supervised experience in applications of previously studied theory. S/U grading.

484 Internship in Marketing (3)
PREQ: Junior standing, 2.0 GPA, written application, permission of department head. Minimum of 10 hours per week.

493 Topics in Marketing (1-3, R12)
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)

Master of Business Administration

Graduate Courses
500 Accounting and Finance for Management Analysis (3)
505 Economics and Public Policy (3)
510 Statistical Analysis for Business (2)
515 Foundations of Management (1)
520 Foundations of Marketing (1)
525 Social, Political, and Legal Environment for Business (2)

Mathematics (MATH)

100 Elementary Algebra (3)
Basic algebraic skills: simplifying algebraic expressions, solving linear and quadratic equations, exponents, and radicals. Not open to students with credit for courses numbered 130 and above. Credit earned in this course will not count toward 128 hours required for graduation.

101 Mathematical Concepts (3)
Introduction to applications of mathematics to daily experience. Topics to include statistical analysis and interpretation, applications to business, measurement methods, and selected topics of interest. (C2)

130 College Algebra (3)
Real number properties, solving equations, inequalities, systems of equations, functions, and graphs.

135 Statistics, Functions, and Rates of Change (3)
Descriptive statistics, probability distributions, functions, and an introduction to derivatives.

140 Introductory Calculus (5)
The differential and integral calculus of algebraic functions of one variable.
144 Applied Trigonometry (3)
Topics including right triangles, trigonometric functions, graphing; basic identities, triangle solutions, and complex numbers; emphasis on applications. Credit not available for both MATH 144 and MATH 145. PREQ: 130.

145 Trigonometry (3)
Basic trigonometry: functions, identities, graphs, solution of equations and triangles, complex numbers, analytical trigonometry. Credit not available for both MATH 144 and MATH 145. PREQ: 130 or consent of the director of mathematics 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 consent of the director of mathematics placement.

153 Calculus I (4)
Limits, continuity, derivatives, and integrals of algebraic and trigonometric functions with applications. PREQ: 145 and 146, or consent of the director of mathematics placement.

170 Applied Statistics (3)
Descriptive statistics, exploratory data analysis, probability distributions, correlation, regression, estimation, and hypothesis testing.

190 Mathematical Models of Population Growth (3)
Exponential, logistic, age-structured populations, metapopulation dynamics, viable population size, and probability of regional extinction. (P2)

191 Mathematics in Social Choice and Decision Making (3)
This course covers topics from voting methods, weighted voting, fair division, apportionment and game theory. (P1)

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. PREQ: or COREQ: 140 or 153.

254 Matrix Theory (3)
Matrices and linear equations. Credit not available for both MATH 254 and MATH 262. PREQ: 146, CS 150.

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

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

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

262 Introduction to Linear Algebra (3)
Systems of equations, matrices, vector spaces, and linear transformations. Credit not available for both MATH 254 and MATH 262. 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)
Graph theory: planarity, eulerian, hamiltonian, colorings, and trees. Enumeration: permutations, combinations, binomial distribution, generating functions, recurrence relations, and inclusion-exclusion. PREQ: Junior standing or permission of instructor.

311 Informal Geometry (3)
Points, lines, planes, constructions; axiomatic structure of geometry and the nature of proof. PREQ: 230 and 231.

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 Probability and Statistics I (3)
Elementary probability, discrete and continuous random variables, expectation, moments, sampling distributions, probability distributions, estimation, and hypothesis testing. PREQ: 255.

375 Statistical Methods II (3)
Analysis of variance, regression, and correlation; analysis of categorical data; distribution-free procedures. PREQ: 270.

386 Practicum (2)
Practical experience under faculty supervision for prospective teachers as teaching aides and as tutors. PREQ: MATH 255; permission of department head. 5 Lab.

389 Cooperative Education in Mathematics (1 or 3, R15)
See Cooperative Education Program.

393 Topics in Mathematics (1-6, R6)
PREQ: Permission of department head.
400 History of Mathematics (3)  
The development of mathematics from a historical perspective. Topics include elementary number theory, probability, algebra, geometry, trigonometry, and calculus.  
PREQ: 153 or 140 or 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 three-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 255.

423 Advanced Calculus II (3)  
Differentiation including L'Hospital's rule and Taylor's theorem; integration theory; other classical topics.  
PREQ: 422.

441 (CS 441) Introduction to Numerical Analysis (3)  
Finite differences, interpolation, numerical integration, and solutions to ordinary differential equations, linear systems, eigenvalues, eigenvectors, and 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, 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 Probability and Statistics 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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>500</td>
<td>History of Mathematics (3)</td>
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<tr>
<td>507</td>
<td>Survey of Algebra (3)</td>
</tr>
<tr>
<td>508</td>
<td>Survey of Analysis (3)</td>
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<tr>
<td>509</td>
<td>Mathematics for Secondary Teachers (3)</td>
</tr>
<tr>
<td>511</td>
<td>Foundations in Geometry (3)</td>
</tr>
<tr>
<td>512</td>
<td>Modern Geometry (3)</td>
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<tr>
<td>523</td>
<td>Advanced Calculus II (3)</td>
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<tr>
<td>541</td>
<td>Introduction to Numerical Analysis (3)</td>
</tr>
<tr>
<td>561</td>
<td>Abstract Algebra (3)</td>
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<tr>
<td>562</td>
<td>Linear Algebra (3)</td>
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<tr>
<td>570</td>
<td>Statistical Theory II (3)</td>
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<tr>
<td>589</td>
<td>Cooperative Education in Mathematics (3, R6)</td>
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<tr>
<td>593</td>
<td>Topics in Mathematics (1-6, R6)</td>
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<tr>
<td>601</td>
<td>Modern Mathematics for Teachers I (3)</td>
</tr>
<tr>
<td>602</td>
<td>Modern Mathematics for Teachers II (3)</td>
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<tr>
<td>603</td>
<td>Modern Mathematics for Teachers III (3)</td>
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<tr>
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<td>622</td>
<td>Analysis I (3)</td>
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<td>623</td>
<td>Analysis II (3)</td>
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<td>624</td>
<td>Complex Analysis (3)</td>
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<tr>
<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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<tr>
<td>634</td>
<td>Partial Differential Equations and Boundary Value Problems (3)</td>
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<td>640</td>
<td>Numerical Analysis (3)</td>
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<tr>
<td>646</td>
<td>Numerical Linear Algebra (3)</td>
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<td>661</td>
<td>Applied Algebra (3)</td>
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<tr>
<td>670</td>
<td>Advanced Statistical Theory (3)</td>
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<tr>
<td>672</td>
<td>Advanced Statistical Methods (3)</td>
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<tr>
<td>693</td>
<td>Topics in Mathematics (1-6, R6)</td>
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<tr>
<td>694</td>
<td>Topics in Mathematics Education (1-6, R6)</td>
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<tr>
<td>699</td>
<td>Thesis (3, R6)</td>
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<tr>
<td>779</td>
<td>Continuing Research—Non-Thesis Option (1, R10)</td>
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<tr>
<td>799</td>
<td>Continuing Research—Thesis Option (2, R24)</td>
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</table>
Middle Grades Education (EDMG)

Graduate Courses

501 Math and the Middle Grades Learner (2)
502 Science and the Middle Grades Learner (2)
503 Language Arts and the Middle Grades Learner (2)
504 Social Studies and the Middle Grades Learner (2)
511 Math: Teaching Strategies for the Middle Grades (2)
512 Science: Teaching Strategies for the Middle Grades (2)
513 Language Arts: Teaching Strategies for the Middle Grades (2)
514 Social Studies: Teaching Strategies for the Middle Grades (2)
521 Math: Assessment and Remediation in the Middle Grades Classroom (2)
522 Science: Assessment and Remediation in the Middle Grades (2)
523 Language Arts: Assessment and Remediation in the Middle Grades Classroom (2)
524 Social Studies: Assessment and Remediation in the Middle Grades Classroom (2)
589 Internship in Middle Grades (3, R9)
621 Issues and Trends in Middle Grades Education (2)
622 Teaching-Learning Strategies for the Middle Grades (3)
623 Teaching Writing in the Middle Grades (3)
624 Research in the Middle Grades: Proposal (2)
625 Research for the Middle Grades: Project (2)
680 Trends and Issues in Middle Grades Education: The Professional Portfolio (2)
979 Continuing Research—Non-Thesis Option (1, R10)

Music (MUS)

101 Music Appreciation (3)
   Introduction to the materials, performing media, and fundamental principles of music in the context of the western classical tradition. (P5)

102 Music in American Culture (3)
   American history as reflected in folk, popular, and art music from 1607 to the present.

110 Introduction to Instrumental Ensembles (1)
   Introduction to playing in instrumental ensembles using fundamentals required to function in a group setting. 4 Lab.

111 Introduction to Vocal Ensemble (1)
   Rehearsal and performance of a variety of choral works; audition required. 3 Lab.

112 Introduction to Piano (1)
   Group lessons in piano and the fundamentals of music for students who do not read music. 2 Lab.

113 Introduction to Singing (1)
   Group lessons in voice and the fundamentals of music for students who do not read music. 2 Lab.

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

152 Aural Skills Laboratory I, II (1, 1)

153 Aural perception of rhythmic, melodic, and harmonic devices. PREQ: Permission of department head. 2 meetings.

177 Basic Music Theory Laboratory (2)
   An introduction to music reading, interval and chord identification, key signatures, and melodic structures. PREQ: Placement examination or permission of department head. 4 Lab.

178 Beginning Theoretical and Analytical Skills (4)
   Music theory skills up to and including secondary dominants and leading tone chords. PREQ: 177 or placement examination.
181 Introduction to MIDI/Synthesis (1)
Survey of MIDI devices, synthesis techniques, and contemporary music technology.
PREQ: Permission of instructor. 2 Lab.

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

190 Freshman Seminar (3)
Variable topics such as jazz, rock, music, music and community, music technology, etc.
See schedule of classes for topic of each section. (P5)

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

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

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

301 Basic Skills (1)
Music fundamentals and elementary performance skills. 3 meetings.

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

303 The World of Music (3)
Musical traditions of various world cultures in their social contexts. PREQ: Junior-level
status.

305 Junior Recital (1)
Public performance. May be scheduled after hearing committee approval and comple-
tion of junior-qualifying examination. PREQ: Junior-level qualifying examination.

325 Music in the Elementary and Middle School (3)
Problems in teaching and supervising the music program in the elementary and middle
school. PREQ: 278; admission to the teacher education program.

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

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

350 Music History I, II (3, 3)
351 Western music from Middle Ages through the Baroque in 350; from the Classical
period through the twentieth-century in 351. PREQ: 278 or permission of department
head and instructor.

378 Survey of the Music Industry (3)
The retail and wholesale music trade: publishing, royalties, copyright, performance
rights, record production, advertising and promotion, labor relations, contracts, artist
management.

389 Cooperative Education in Music (1 or 3, R15)
See Cooperative Education Program.
403 Marching Band Techniques (2)  
PREQ: 326.

405 Senior Recital (1)  
Public performance. May be scheduled after hearing committee approval. PREQ: 305.

420 Studies in Music Literature (3, R9)  
Historical and theoretical study of various forms of music literature. PREQ: 351 or approval of instructor.

425 Twentieth-Century Music (3)  
Historical and theoretical issues in twentieth-century music. PREQ: 351 or approval of instructor.

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, 283.

489 Internship (3, 6, 9, R9)  
Faculty-supervised training in an approved agency. Minimum of 9 hours per week or 135 hours for each 3 credits, arranged with the agency and the music department. PREQ: 378, BA 133, CIS 251, permission of department head.

493 Topics in Music (1-3, R12)  
Issues in music performance, education, or the music business. PREQ: Permission of department head.

497 Seminar in Piano Pedagogy (1, R4)  
PREQ: Approval of instructor. 2 Lab.

498 Seminar in Accompanying (1, R4)  
PREQ: Approval of instructor. 2 Lab.

Graduate Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>503</td>
<td>Marching Band Techniques</td>
<td>(2)</td>
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<tr>
<td>504</td>
<td>Topics in Music (1-3, R9)</td>
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<td></td>
</tr>
<tr>
<td>520</td>
<td>Studies in Music Literature (3, R9)</td>
<td></td>
<td></td>
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<tr>
<td>525</td>
<td>Twentieth-Century Music (3)</td>
<td></td>
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<tr>
<td>592</td>
<td>Orff-Schulwerk Level I (3)</td>
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<tr>
<td>593</td>
<td>Topics in Music (1-3, R12)</td>
<td></td>
<td></td>
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<tr>
<td>597</td>
<td>Seminar in Piano Pedagogy (1, R4)</td>
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<tr>
<td>598</td>
<td>Seminar in Accompanying (1, R4)</td>
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<td>601</td>
<td>Writing About Music (1)</td>
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<td>611</td>
<td>Applied Music (1, R4)</td>
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<td>Applied Music (2, R8)</td>
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<td>Applied Music (3, R9)</td>
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>614</td>
<td>Applied Conducting (1, R4)</td>
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<td>615</td>
<td>Applied Composition (2, R8)</td>
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<td>621</td>
<td>History of Musical Theory (3)</td>
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<td>622</td>
<td>Influences of Folk Traditions on Western Art Music (3)</td>
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<td>640</td>
<td>Seminar in Music Pedagogy (3, R6)</td>
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<td>650</td>
<td>Advanced Flute Repair (2, R8)</td>
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<td>679</td>
<td>Lecture/Recital (3, R6)</td>
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<td>680</td>
<td>Independent Study (1, R6)</td>
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<td>693</td>
<td>Orff-Schulwerk Level II (3)</td>
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<td>694</td>
<td>Orff-Schulwerk Level III (3)</td>
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<td>695</td>
<td>Music Education Seminar (3)</td>
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<tr>
<td>699</td>
<td>Thesis (3)</td>
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</tbody>
</table>

Performance Courses

Credit is earned on the basis of one hour for each half-hour of individual instruction per week. The courses are listed in prerequisite order. The two-hour courses are open only to music majors in the principal performance area. All other students take the one-hour courses. Permission of the department head is required. Passing a qualifying examination is prerequisite for 2/332, 2/336, 2/342, 2/346, 2/356, 2/362, and 2/366.

<table>
<thead>
<tr>
<th>Performance Area</th>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Brass</td>
<td>130, 131, 230, 231, 330, 331, 430, 431 (1 each)</td>
<td>432, 433 (2 each)</td>
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<tr>
<td>Percussion</td>
<td>134, 135, 234, 235, 334, 335, 434, 435 (1 each)</td>
<td>336, 337, 336, 337, 436, 437 (2 each)</td>
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<tr>
<td>Course</td>
<td>Code</td>
<td>Description</td>
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<tr>
<td>Piano</td>
<td>140, 141, 240, 241, 340, 341, 440, 441</td>
<td>(1 each)</td>
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<td>142, 143, 242, 243, 342, 343, 442, 443</td>
<td>(2 each)</td>
</tr>
<tr>
<td>Organ</td>
<td>144, 145, 244, 245, 344, 345, 444, 445</td>
<td>(1 each)</td>
</tr>
<tr>
<td></td>
<td>146, 147, 246, 247, 346, 347, 446, 447</td>
<td>(2 each)</td>
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<tr>
<td>Harpsichord</td>
<td>150, 151, 250, 251</td>
<td>(1 each)</td>
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<tr>
<td>Voice</td>
<td>154, 155, 254, 255, 354, 355, 454, 455</td>
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<tr>
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<td>156, 157, 256, 257, 356, 357, 456, 457</td>
<td>(2 each)</td>
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<tr>
<td>Woodwind</td>
<td>160, 161, 260, 261, 360, 361, 460, 461</td>
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<td>162, 163, 262, 263, 362, 363, 462, 463</td>
<td>(2 each)</td>
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<tr>
<td>String</td>
<td>164, 165, 264, 265, 364, 365, 464, 465</td>
<td>(1 each)</td>
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<td>166, 167, 266, 267, 366, 367, 466, 467</td>
<td>(2 each)</td>
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<tr>
<td>Music Synthesis</td>
<td>188, 189, 288, 289, 388, 391, 458, 459</td>
<td>(2 each)</td>
</tr>
</tbody>
</table>

148 Piano Class I, II (1, 1)
149 Basic functional keyboard skills. 2 meetings.

158 Voice Class I, II (1, 1)
159 Fundamental voice instruction. 2 meetings.

168 String Class I (1)
Playing stringed instruments: basic technical problems and teaching techniques. 2 meetings.

169 Classroom Guitar Technique (1)
Basic technical problems and teaching techniques. 2 meetings.

170 Preparatory Applied Music (2, R4)
Individual instruction for students not meeting prerequisites. Not applicable to major. 
PREQ: Permission of department head. 1 meeting.

171 Chorus (1, R8)
Study and performance of representative choral works; open to any student meeting eligibility requirements. 3 meetings.

172 Concert Choir (1, R8)
Audition required; public performances. 4 meetings.

173 Band (1, R8)
Performance of a wide variety of music in the marching, symphonic, and concert bands; open to any student meeting eligibility requirements. 4 meetings.

174 Orchestra (1, R8)
Experience for advanced string, 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 Diction for Singers I (1)
Fundamentals of the International Phonetic Alphabet and the principles utilized in a singing pronunciation of English and Italian.
259 Diction for Singers II (2)
Continuation of the International Phonetic Alphabet and the principles utilized in a singing pronunciation of German and French. PREQ: 258 or permission of instructor.

270 Brass Class I (1)
Brass performance and pedagogy related to trumpet. 2 meetings.

271 Woodwind Class I (1)
Playing clarinet and saxophone: basic technical problems and teaching techniques. 2 meetings.

272 Percussion Class (1)
Playing percussion instruments: basic technical problems and teaching techniques. 2 meetings.

273 Brass Class II (1)
Playing horn and low brass; basic technical problems and teaching techniques. PREQ: 270. 2 meetings.

274 Woodwind Class II (1)
Playing flute and double reeds; basic technical problems and teaching techniques. 2 meetings.

279 Wind and Percussion Class I (1)
Class for voice and keyboard music majors, music minors, and music focus area students. 2 Lab.

283 Music Technology Class (1)
Topics, equipment, and pedagogy of music technology. PREQ: Permission of instructor. 1 hour of lecture/demonstration.

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.

358 Performance Laboratory (0)
Attend ten approved music performances. S/U grading.

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.
383 Music and Audio in Media (3)
Recording, editing, importing, embedding and synchronizing in a variety of media formats including compact disc, video, instructional presentation, and the World Wide Web.

448 Piano Class VII, VIII (1, 1)
449 Continuation of 348 and 349; must be elected in sequence until piano proficiency is satisfied; credit not applicable toward major requirements. 2 meetings.

Graduate Courses

- 594 Topics in Music (1-3, R9)
- 611 Applied Music (1, R4)
- 612 Applied Music (2, R8)
- 613 Applied Music (3, R9)
- 675 Ensemble (1, R6)
- 696 Seminar in Choral Techniques and Materials (3)
- 979 Continuing Research—Non-Thesis Option (1, R10)
- 999 Continuing Research—Thesis Option (2, R24)

Natural Resources Management (NRM)

150 Introduction to Natural Resources Management (1)
Exploration of varied career opportunities; career and program planning advisement; professional values and requirements; exposure to professionals in field. 2 lab/discussion/demonstration.

340 Natural Resource Measurements (4)
Basic land, climatic, hydrologic, and vegetative measurements used in resource management. 3 Lecture, 2 Lab.

342 Microcomputer Applications in NRM (1)
Applications of spreadsheets, database management, and specialized computer software to problems in natural resources management. 1 Lab.

344 Introduction to Geographic Information Systems (3)
Introduction to and applications of geographic information systems in natural resources management. 2 Lecture, 2 Lab. PREQ: CS 101, NRM 342 or permission of instructor.

351 Forest Ecology (3)
The study of forests as integrated ecological systems; energy transfer; nutrient cycling; communities; succession; disturbance; and their roles in productivity and management. PREQ: BIOL 232, NRM 340 or permission of instructor. 2 Lecture, 2 Lab.

352 Forest Resource Measurements (3)
Principles of applications in measuring forest resources. Measurements of trees and stands for volume, quality, growth, land areas, and other forest resources. PREQ: 340 or permission of instructor. 2 Lecture, 2 Lab.

389 Cooperative Education in NRM (1 or 3, R15)
See Cooperative Education Program.

440 Integrated Resources Management (4)
Natural resources management exercises; project and strategic planning; map and quantitative integration techniques; group dynamics. PREQ: 340, 442; or permission of instructor. 2 Lecture, 4 Lab.

442 Natural Resources Policy and Administration (3)
Policy and administrative principles; case studies on the evolution of policy in the United States; current issues. PREQ: NRM major, junior standing; or permission of instructor.

451 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: 351, 352 or permission of instructor. 3 Lecture, 2 Lab.
452 Forest Management (4)
Principles of forest management at stand and forest levels: forest growth, regulation, harvesting, and multiple-use management. PREQ: 451 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. PREQ: 340 or permission of instructor. 2 Lecture, 2 Lab.

470 Land Suitability Classification (3)
Study and application of land suitability classifications systems. PREQ: 340, 344, GEOG 305; or permission of instructor. 2 Lecture, 2 Lab.

480 Independent Study (1-3, R6)
PREQ: NRM major and permission of program coordinator.

493 Topics in NRM (1-4, R12)
PREQ: Permission of program coordinator.

Nursing (NSG)

300 Nursing Ethics through the Life Span (1-3)
Moral problems of everyday nursing practice; emphasis on the nurse’s role in moral reasoning. PREQ: Permission of instructor.

301 Professional Transitions in Nursing (3)
The development of the profession and of professional nurse roles and the processes through which they are conducted. PREQ: Admission to the nursing sequence.

302 Health Promotion in the Community (3)
Families as recipients of nursing care: wellness and promotion of health for individuals, families, and other groups in the community. PREQ: 301 or permission of instructor.

340 Basic Nursing Skills (4)
Psychomotor nursing skills essential to the care and comfort of patients, scientific principles, underlying nursing procedures. PREQ: Admission to the nursing sequence. 3 Lecture, 3 Lab.

350 Dimensions of Professional Nursing (2)
The development of the profession and of professional nurse roles. PREQ: Permission of instructor. 1 Lecture, 1 Seminar.

353 Nursing Science I (4)
Fundamental nursing processes and concepts: emphasis on health maintenance and wellness; the normal prenatal patient as a major model. PREQ: Admission to the nursing sequence. COREQ: 383.

355 Nursing Science II (4)
Concepts of healthcare, health promotion, illness care, and nursing roles in community health and adult health inpatient settings are presented. PREQ: 383. COREQ: 385.

360 Health Care of Women (2)
Review of women’s health care, the functions of women’s bodies, and personal responsibility for health.

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. S/U grading. 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. S/U grading. 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 a variety of community settings; nursing role in preventing and treating illness emphasized. S/U grading. PREQ: 383. COREQ: 355. 12 Lab.

389 Cooperative Education in Nursing (1 or 3, R15)
PREQ: 355. See Cooperative Education Program.

393 Topics in Nursing (1-4, 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. PREQ: Permission of instructor.

460 Nursing Leadership and Management (3)
Leadership theory in the management of clients, peers, and other healthcare providers in nursing service settings. PREQ: 385 or permission of instructor. 2 Lecture, 1 Seminar.

466 Nursing Science III (5)
Application of the nursing process for complex client models, including the childbearing family, the hospitalized child and family, and the mentally ill client. PREQ: 385. COREQ: 486.

467 Nursing Science IV (5)
Planning nursing care in hypothetical situations for the ill adult with complex healthcare problems. PREQ: 385. COREQ: 487.

470 Nursing Research (3)
Research design in the study of nursing problems; interpretation of research emphasized. PREQ: Permission of instructor.

475 Perspectives of the Nursing Profession (2)
The impact and implications of current and evolving trends on the future practice of nursing. PREQ: Permission of instructor. 1 Lecture, 1 Seminar.

480 Independent Study (1-3, R6)
PREQ: Permission of instructor. S/U Grading.

482 Readings in Nursing (3)
PREQ: Permission of instructor.

483 Practicum in Clinical Management (3)
Application of management principles in the care of clients with complex health problems. S/U grading. 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. S/U grading. PREQ: 385. COREQ: 466. 12 Lab.
487 Clinical Practicum IV (4)
Application of wellness-illness concepts, nursing and other processes, and nursing
skills with individuals and multiproblem families in complex healthcare agencies:
12 Lab.

Graduate Courses

601 Advanced Practice Nursing: Roles and Professional Issues (3)
610 Theory for Advanced Practice Nursing (2)
611 Research for Advanced Practice Nursing (3)
616 Economics and Organization of HealthCare (3)
621 Pathophysiology and Differential Diagnosis (3)
622 Advanced Pharmacology (4)
623 Advanced Health/Physical Assessment (4)
624 Family Health Promotion in the Rural Community (3)
670 FNP I: Social and Behavioral Health Problems (2)
673 FNP II: Reproductive Health and the Child-bearing Family (3)
674 FNP III: Primary Care of Children and Adolescents and Selected Episodic Health Problems Across the Lifespan (3)
675 FNP IV: Primary Care of Adults and Elderly Adults and Selected Chronic Health Problems Across the Lifespan (3)
679 Research Project (2)
683 FNP II: Clinical Management (2)
684 FNP III: Clinical Management (3)
685 FNP IV: Clinical Management (3)
686 FNP V: Primary Care Clinical Practicum (3)
699 Thesis (3, R6)

Nutrition and Dietetics (ND)

190 Personal Nutrition (3)
Basic research-based nutrition concepts applied to assessment and adjustment of
personal nutrition habits; critical evaluation of nutrition information and influences on
dietary patterns. (P2)

231 Food Science (4)
Scientific principles of food preparation; effect of preparation practices on food quality
and nutrient retention; storage and preservation principles. 3 Lecture, 3 Lab.

300 The Science of Nutrition (3)
An introduction to the principles of a healthful diet and weight control in comparison
to current trends in eating behaviors and food production. 3 in class laboratory sessions
during four 75-minute class periods. (P2)

330 Human Nutritional Needs (3)
Principles of nutrition; needs throughout the life cycle; selection of well-balanced diets
for health and well-being.

334 Nutritional Applications (2)
Applications of the principles of nutrition to diet planning, nutrient analysis, including
computer-aided analysis, and nutritional assessment and counseling. PREQ: 330.

338 Normal and Therapeutic Nutrition (3)
Principles of normal human nutrition, altered nutrient requirements of disease states,
and medical nutrition therapy. PREQ: BIOL 292, CHEM 133.

340 Community Nutrition (2)
Application of nutrition principles to planning funding implementation, monitoring
and evaluation of community nutrition programs and activities. PREQ: 330.

389 Cooperative Education in Nutrition (1 or 3, R15)
See Cooperative Education Program.

431 Food Preservation (3)
Principles and procedures for food preservation; home methods, principles of home
food sanitation and spoilage, food storage techniques. PREQ: 231 or permission of
instructor. 2 Lecture, 2 Lab.
433 Research Methods in Nutrition (3)
Standard procedures for nutrient analysis, including proximate analysis of foods; introductory experimental design and methodology. PRQ: 231: MATH 170 or PSY 251. COREQ: 436. 2 Lecture, 4 Lab.

434 Experimental Methods of Foods (3)
Advanced food science principles and techniques of sensory and objective evaluation of foods. PRQ: 231: CHEM 133. 2 Lecture, 4 Lab.

436 Advanced Human Nutrition (4)
Normal nutrition related to biochemical and physiological functioning; interrelationships of nutrients and their effect on body needs. PRQ: 334: BIOL 292: CHEM 133. COREQ: 433.

437 Diet Therapy (4)
Mechanisms by which food contributes to maintenance of health, prevention of disease, and correction of nutritional disorders. PRQ: 436. COREQ: 439.

439 Introduction to Professional Practice (3)
Introduction to professional ethics, conduct in patient care, utilization of laboratory values, nutritional assessment, and dietary management. COREQ: 437. 2 Lecture, 3 Clinical.

480 Independent Study in Nutrition (1-3, R6)
PRQ: 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. PRQ: Permission of instructor. 9 hours per week per course.

495 Seminar in Nutrition (1)
Student presentations on current topics in nutrition. PRQ: 436.

Graduate Courses

531 Food Preservation (3)
533 Research Methods in Nutrition (3)
534 Experimental Methods of Foods (3)
536 Advanced Human Nutrition (4)
537 Diet Therapy (4)
538 Clinical Experience in Dietetics (1)
539 Introduction to Professional Practice (3)
630 Nutrition Throughout the Life Cycle (3)
635 Nutrition Education (3)
636 Protein, Carbohydrates, and Lipids (3)
637 Advanced Diet Therapy (3)
638 Community Nutrition (3)
639 Vitamins and Minerals (3)
681 Practicum in Clinical Dietetics (3, R6)
682 Practicum in Administrative Dietetics (3, R6)
683 Practicum in Community Dietetics (3)
693 Topics in Nutrition and Food Science (1-3, R9)
695 Advanced Nutrition Seminar (1, R2)

Parks and Recreation Management (PRM)

150 Career Opportunities in Parks and Recreation (1)
Exploration of varied career opportunities; career planning advisement; professional values and requirements; exposure to professionals in the field. 2 Lab/discussion/demonstration.

250 Foundations of Parks and Recreation Management (3)
Concepts, philosophical orientations, and aspects of recreation, play, and leisure: the organization of leisure and recreation as a service and profession. PRQ: 150 or permission of instructor.

254 Introduction to Outdoor Pursuits Education (3)
Instructional techniques for outdoor pursuits. Back country characteristics are reviewed in terms of hazards, use ethics, and safety. 2 Lecture, 2 Lab.

256 Outdoor First Aid (3)
Training for outdoor professionals to administer comprehensive first aid in remote
areas: possible certification through the National Ski Patrol for Winter Emergency Care and CPR. 2 Lecture, 2 Lab.

270 Leadership and Group Dynamics in Recreation (3)
Emphasis will be on appropriate theories and techniques for specific clientele and the different populations that are encountered as a recreation professional.

313 Camp Counseling (3)
This course is designed to prepare students for positions as camp counselors and provides the foundations for further preparation toward camp administration.

314 Organization and Administration of Camping Agencies (3)
The nature of camping: trends; elements of camp design and management.

321 Outdoor Education and Interpretation (3)
Theory and principles of outdoor education as an interdisciplinary approach to learning in a recreational or educational setting. 2 Lecture, 2 Lab.

330 (SM 330) Aquatic Recreation Management (3)
Organization, programming, facility design, and maintenance in various aquatic recreational environments. Course may lead to Certified Pool Operator certification.

361 Program Planning and Evaluation in Parks and Recreation Management (3)
Designed to equip students with a variety of program planning methodologies, including proposal and grant writing. Evaluative research methods are also included. PREQ: SOC 231 and SOC 385 or permission of instructor. 2 Lecture, 2 Lab.

370 Internship Orientation (1)
Orientation to the internship; preparation of personnel records: applications, resumes, and agency contracts. Preparation for entry into the profession: interview and application techniques. PREQ: SOC 385 and SOC 231, or permission of instructor. 2 Lab.

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

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

420 Administration and Leadership of Outdoor Pursuits (3)
Implementation of outdoor pursuits programs; includes planning and leadership components, outdoor adventure-based administrative techniques, and risk management. PREQ: 254 or permission of instructor. 2 Lecture, 2 Lab.

425 Land-Based Outdoor Pursuits Education (3)
Land-based outdoor instruction in mountain activities, caving, and rescue techniques; includes institutional teaching techniques used by different agencies and adaptations for people with disabilities. PREQ: 254 or permission of instructor. 2 Lecture, 2 Lab.

426 Water-Based Outdoor Pursuits Education (3)
Water-based outdoor instruction in canoeing, kayaking, rafting, and rescue techniques; includes institutional teaching techniques used by different agencies and adaptations for people with disabilities. PREQ: 254 or permission of instructor.

430 Entrepreneurship and Commercial Recreation (3)
Analysis of types of commercial and private recreation enterprises, probable trends and directions, requirements for and procedures for planning and organizing commercial recreation services.

433 Outdoor Recreation (3)
An overview of the professional aspects of outdoor recreation, including classification
systems, policies of management agencies, and the perspectives of individuals, non-profit and commercial groups.

434 High Adventure Travel and Outfitting (3)
History, development, and organization of these activities. PREQ: Permission of instructor. 2 Lecture, 2 Lab.

435 Park and Recreation Sites, Facilities, and Programs (1-6, R6)
Planned tour to study specific types of parks and recreation sites, facilities, and/or programs related to current issues and practices. 1 Lecture or 2 Lab per credit hour.

440 Travel and Tourism (3)
The travel and 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.

461 Management and Administration of PRM Services (3)
Management, organization, and supervision in recreation and leisure service administration. Includes entre/intrapreneurship, planning processes, marketing, fiscal strategies, human services, evaluation, and research. PREQ: 250 or permission of instructor.

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

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

484 Internship in Parks and Recreation Management (1-3, R6)
PREQ: 370, 2.0 GPA, permission of program coordinator. 9 hours per week per course.

486 Field Experience (1-12)
Field experience in cooperation with existing programs such as North Carolina Outward Bound School and Nantahala Outdoor Center. PREQ: Permission of instructor. 1-12 Lab.

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

495 Senior Seminar in Parks and Recreation Management (1)
Current trends and issues; individual research topics; employment decision making; graduate school advisement; presentation of internship experience. PREQ: Permission of instructor. 2 Lab/discussion.

Graduate Courses
580 Independent Study (1-3, R6)
583 Internship in Parks and Recreation Management (1-3, R6)
593 Topics in Parks and Recreation Management (1-3, R6)

Philosophy (PHIL)

101 Western Philosophical Traditions (3)
Introduces students to thinkers foundational to liberal arts education who pursue the examined life, inquiring into human existence, knowledge and moral goodness. (P4)

102 Western Moral Traditions (3)
The study of historical theories of virtue, duty, and the common good, along with moral education; and contemporary moral dilemmas (e.g., abortion, animal rights, genetic engineering). (P4)

190 Freedom, Culture, and Technology (3)
Study, through classic works, of the debate between utopian and dystopian thinkers, of the best way to order society and determine "the good life." 3 Seminar. (P4)
230 Legal, Scientific, and Critical Reasoning (3)
Argument analysis, validity, strength, soundness of deductive and inductive arguments; logical fallacies; practical uses of critical reasoning in legal, scientific, and ethical case studies. (P4)

304 Justice, Power, and Human Nature in the Ancient Greek Polis (3)
Ancient Greek thinkers that founded the Western liberal arts traditions, first raising central questions about human excellence, knowledge, justice, power, and historical meaning. (P4)

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

306 Science, Reason, and Autonomy in the Enlightenment (3)
Rejecting authority of tradition, rationalists and empiricists, like Rene Descartes and Francis Bacon, inaugurate modern natural science by demanding new methods and principles of reasoning. (P4)

307 Liberty, System, and History in the Age of Revolutions (3)
Philosophical Ideal of Freedom found in Kant and Hegel--its development and implications in German Idealism, and its critique by Marx, Mill, Nietzsche, and Kierkegaard. (P4)

308 Alienation, Technology, and Meaning in the Postmodern Age (3)
Development of Twentieth-century Philosophy from its roots in Pragmatism, Vitalism, Phenomenology, and Logical Positivism to Deconstructionism, Postmodernism, and recent analytic and linguistic approaches. (P4)

309 Philosophy In and Of Film (3)
Philosophical ideas in film; philosophical ideas about film and about the interpretation of film. (P4)

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. (P4)

313 Philosophy of Law (3)
The nature of law and legal reasoning: classical and modern theories of law; law, freedom of expression, equality, justice, and responsibility-explored through case studies. (P4)

330 America's Wilderness Philosophers and Essayists (3)
The experience of America's wilderness has given rise to a unique literary and philosophical tradition; critically examines some of our best wilderness philosophers. (P4)

333 Environmental Ethics (3)
Environmental ethics concerns how humans ought to be related to nature. One question explored is "Do animal and ecosystems have value independent of human needs?" (P4)
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)

101 Yoga (1)
   Adapted yoga postures and breathing; foundations for meditation. 2 meetings.

102 Basic Water Safety Skills (1)
   Basic water skills; Level III Stroke Readiness; American Red Cross swimming outline. 2 meetings

103 Intermediate/Advanced Swimming and Aquatic Sports (1)
   Swimming strokes and diving; American Red Cross Level VII Advanced Skills; water polo, basketball, and volleyball skills rules and strategy. PREQ: 102 or equivalent. 2 meetings

104 Lifesaving (1)
   American Red Cross outline; applicable toward lifesaving certification. PREQ: 103 or equivalent. 2 meetings (F5)

105 Water Safety Instructor-Lifeguarding Instructor (1)
   American Red Cross training for water safety instructor and lifeguarding instructor certificates. PREQ: Red Cross Level VII Advanced Swimming Skills. 3 meetings.

107 Synchronized Swimming (1)
   Creative patterns and movement with music. PREQ: 103 or equivalent. 2 meetings.

108 Canoeing (1)
   PREQ: 103 or equivalent. One 2-hour meeting.

109 Karate (1)
   Basics of balance, movement, and flexibility as well as self defense. 2 meetings.

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.

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

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

116 Slimnastics (1)
   Exercise and weight control; correlation of proper exercise to body proportions. 2 meetings.
118 Aerobic Dance (1)
   A physical fitness program utilizing simple dance routines and exercises. 2 meetings.

122 Beginning Tennis (1)
   2 meetings.

123 Beginning Golf (1)
   2 meetings.

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

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

126 Bowling (1)
   2 meetings.

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

129 Archery (1)
   2 meetings.

130 Lifeguard Training (1)
   American Red Cross outline for lifeguarding certificate. PREQ: PE 103 or equivalent.
   3 meetings.

132 Basketball (1)
   2 meetings.

133 Volleyball (1)
   2 meetings.

134 Softball (1)
   2 meetings.

135 Soccer (1)
   2 meetings.

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

203 Gun Handling (1)
   Shooting techniques, positions, gun laws and care of equipment. 2 meetings.

204 Snow Skiing (1)
   Meetings as announced.

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.

206 Social, Line, and Folk Dance (1)
   Skills, control, and poise required in social, line, and folk dances. 2 meetings.

207 Fencing (1)
   2 meetings.

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.

228 Adapted Physical Education (1, R3)  
Remedial and therapeutic activities. PREQ: Permission of instructor and recommendation of a physician. 2 meetings.

230 Ice Skating (1)  
Mechanical principles of ice skating, history, equipment, safety of ice skating as a recreational activity. 2 meetings.

231 Aquarobics (1)  
Pool-based nonswimming aerobic activity for all ages and fitness levels. 2 meetings.

Major Courses

213 (SM 213) Introduction to Athletic Training (3)  
Prevention of injuries, bandaging and the treatment of basic injuries in varsity athletics.

250 Elementary School Physical Education Curriculum (2)  
Physical education in relation to the total curriculum.

251 Dance Dynamics (3)  
Methods and materials in creative rhythms; singing games, folk dances, and modern dance. 2 Lecture, 2 Lab.

255 Fitness, Wellness and Conditioning Theory and Practice (2)  
This course is designed as practical application of fitness, wellness and conditioning concepts. The student will be actively engaged in planning program design for others.

264 Skill Acquisition (1)  
The course emphasizes skill acquisition in tumbling, gymnastics and swimming. 2 meetings.

265 Sports Officiating I, II (2,2)  
266 Rules, techniques, and mechanics in sports officiating: football, softball, baseball in 265; basketball, volleyball, soccer in 266.

310 Management of Physical Education and Sport Activity (2)  
Study of management functions of physical education, intramurals, and sport programs. 2 Lecture, 1 Lab.

311 (HEAL 311) Measurement and Evaluation (2)

312 Foundations of Health and Physical Education (3)  
The basic physiological, psychological, and sociological principles and historical foundations.

313 (SM 313) Psychological Aspects of Sport (3)  
The psychological aspects of sport and coaching methods. PREQ: Junior standing; SM 260 for SM majors.
316 Administration of Recreational Agencies (2)
Organizational theory; facility, program, and personnel management in private and commercial recreational agencies. PREQ: Permission of instructor.

325 Physical Education Curriculum and Methods (3)
Class management, teaching methods, and program content for grades K-12. PREQ: Majors must be admitted to the professional education sequence. Minors by permission of instructor.

335 Anatomy and Physiology (3)
The study of the structure and function of the human body.

345 Physical Education for Children (3)
Developmental approach to physical education for the elementary school program. 2 Lecture, 2 Lab.

353 Methods and Teaching Analysis of Team and Individual Sports (3)
Methods, materials, and skills used in teaching sports: basketball, soccer, softball, tennis, track and field, and volleyball. PREQ: 312. 2 Lecture, 2 Lab.

360 Skills in Promoting Healthful Living (1)
A competency-based course of methods and materials in health, first-aid/safety, and physical education for the elementary school program. 2 Lecture, 1 Lab.

380 Independent Study (1-3)
A topic in health, physical education, or recreation agreed upon by student and instructor. PREQ: ENGL 102; permission of department head.

383 Instructional Apprenticeship (1, R3)
Apprenticeship to develop teaching and leadership skills before student teaching. PREQ: Physical education major; permission of instructor. 3 hours per credit hour.

389 Cooperative Education in PE and Sports (1 or 3, R15)
See Cooperative Education Program.

405 Outdoor Leisure Pursuits (1)
Application of principles of outdoor skills to planning, implementing, and evaluating K-12 school programs. 1 Lecture, 2 Lab.

410 Coaching Baseball and Football (3)
History, methods, materials, skills, and strategies of coaching baseball and football. PREQ: Junior-level standing; 2 Lecture, 2 Lab.

411 Coaching Basketball, Track, and Field (3)
Methods, materials, skills, and strategies for women's and men's basketball and track and field. PREQ: Junior-level standing; 2 Lecture, 2 Lab.

418 Coaching Softball, Volleyball, and Gymnastics (3)
Methods, materials, skills, and strategies of coaching softball, volleyball, and gymnastics. PREQ: Junior-level standing; 2 Lecture, 2 Lab.

423 Kinesiology (3)
Structure and function of the human muscular system as related to sports and activities. PREQ: 335.

424 Physical Education for the Exceptional Child (2)
Physical injuries, disabilities, illnesses: experience in analysis and application of therapeutic modalities. PREQ: 423 or permission of instructor.

425 Exercise Physiology (3)
The study of the acute and chronic effects of exercise on the human body. PREQ: 335.
435 Motor Behavior (3)
Analysis of the various theories related to motor learning, including equipment, evaluation techniques, and application in an educational environment. PREQ: 335.

490 Supervised Student Teaching in Physical Education (9)
A full-time teaching experience in physical education. COREQ: 490.

493 Special Topics (3, R6)
Trends and issues in physical education, sport management, and recreation.

496 Student Teaching Seminar in Physical Education (3)
Theory related to practice during physical education student teaching. COREQ: 490.

Graduate Courses
615 Legal Issues in Human Performance (3)
621 Research in Health and Human Performance (3)
625 Motor Learning (3)
630 Physical Education Curriculum (3)
635 Lifespan Motor Development (3)
640 Administration of Physical Education (3)
650 Applied Physiology (3)
655 Methods and Analysis in Physical Education and Sport Instruction (3)
665 Exercise Testing and Prescription (3)
675 Issues in Intramurals and Athletics (3)
676 Research Techniques in Exercise Physiology (3)
694 Special Problems (1-3)
696 Seminar/Practicum in Physical Education (3)
699 Thesis (3, R6)
779 Continuing Research—Non-Thesis Option (1, R10)
799 Continuing Research—Thesis Option (2, R24)

Physical Therapy (PT)
190 Caring for the Aging Population: Challenges and Solutions (3)
Investigate issues related to aging and health, including longevity, age-related changes in healthy older people, living arrangements, caregiving, programs for healthier aging, nutrition, financial concerns. (P1)

Graduate Courses
611 Physical Therapy Science I (3)
612 Physical Therapy Science II (3)
613 Physical Therapy Science III (4)
614 Physical Therapy Science IV (4)
615 Physical Therapy Science V (4)
621 Human Anatomy I (3)
622 Human Anatomy II (3)
623 Functional Human Anatomy I (4)
624 Functional Human Anatomy II (4)
631 Human Physiology I (2)
632 Human Physiology II (2)
641 Scientific Inquiry I (2)
642 Scientific Inquiry II (2)
643 Scientific Inquiry III (1-3)
644 Scientific Inquiry IV (1-3)
651 Clinical Logic I (3)
652 Clinical Logic II (3)
653 Clinical Logic III (3)
660 Neuroscience (2)
680 Directed Independent Study (1-3, R9)
683 Experiential Professional Activities
684 I and II (2, 2)
693 Topics in Physical Therapy (1-3, R9)
720 Program Assessment (1)
779 Continuing Research—Non-Thesis Option (1, R10)
783 Experiential Professional Activities
784 III and IV (3, 10)

Physics (PHYS)
105 Contemporary Physics (3)
A lecture-laboratory integrated course covering basic theories and techniques used in physics. Topics include wave motion, matter, heat, electromagnetism, quantum mechanics, and nuclear physics. 3 Lecture/Lab. (P2)

130 Introductory Physics I (4)
Noncalculus-based treatment of motion, force, energy, and heat. PREQ: MATH 130. COREQ: PHYS 130 lecture and PHYS 130 lab. 3 Lecture, 2 Lab. (Lecture-3 credits, Lab 1 credit) (Lab is required.)

131 Introductory Physics II (4)
A continuation of PHYS 130 covering electricity, magnetism, optics, and modern physics. PREQ: PHYS 130. COREQ: PHYS 131 lecture and PHYS 131 lab. 3 Lecture, 2 Lab. (Lecture-3 credits, Lab-1 credit) (Lab is required.)
150 Perspectives on Physics and Technology (1)
Inquiry-based course exploring applications of physics to solving real-world problems: historical background, scientific viewpoints, current cutting-edge research, and careers in physics and technology. 2 Lecture/Lab.

230 General Physics I (4)
Calculus-based study of motion, force, energy, wave motion, and thermodynamics. PREQ: MATH 153. COREQ: PHYS 230 lecture and PHYS 230 lab. 3 Lecture, 3 Lab. (Lecture-3 credits, Lab-1 credit) (Lab is required.)

231 General Physics II (4)
A continuation of PHYS 230 covering electricity, magnetism, optics, and modern topics. PREQ: PHYS 230. COREQ: PHYS 231 lecture and PHYS 231 lab. 3 Lecture, 3 Lab. (Lecture-3 credits, Lab-1 credit) (Lab is required.)

302 Electronics (4)
Circuit theory, discrete devices, amplifiers, operational amplifiers, integrated circuits, and digital techniques. PREQ: 131 and a course in differential and integral calculus. 3 Lecture, 3 Lab.

310 Modern Physics (3)
Special relativity, quantum physics, the wave nature of matter, atomic and nuclear structure, and elementary particles. PREQ: 131 or 231; MATH 140 or 153.

320 Mathematical Methods of Physics (3)
Complex numbers and functions, series, Fourier series, cylindrical and spherical polar coordinate systems, ordinary and partial differential equations. PREQ: 131 or 231; MATH 255.

322 Optics (4)
Geometrical and physical optics, introduction to quantum optics. PREQ: 131, MATH 255. 3 Lecture, 3 Lab.

325 Thermodynamics (3)
Classical theory of heat, first and second laws of thermodynamics, enthalpy, entropy, introductory kinetic theory, and statistical thermodynamics. PREQ: 131, MATH 256.

330 (GEOL 330) Geophysics (4)
The physics of the Earth. Topics include theory and applications of gravity, magnetics, electricity, and seismicity to environmental and tectonic problem-solving in geology. Field-oriented lab problems and applications. PREQ: 130 or 230. COREQ: 131 or 231. 3 Lecture, 3 Lab.

335 Astrophysics (3)
Introduction to the basic principles of astrophysics; stellar structure, stellar evolution, galactic astronomy. PREQ: 231 or 131; MATH 256.

360 Laboratory Physics (2)
Intermediate experiments in modern physics. PREQ: 131 or 231.

380 Research in Physics (2, R8)
Physics research projects for individual students. PREQ: Permission of instructor.

389 Cooperative Education in Physics (1 or 3, R15)
See Cooperative Education Program.

410 Classical Mechanics (3)
Topics in analytical mechanics using vector operators and differential equations. PREQ: 320 or MATH 256.
420 Nuclear Physics (3)
Nuclear decay, models, reactions, fission, fusion; lab techniques of instrumentation, gamma spectra, particle techniques. PREQ: 131 or 231 and a course in differential and integral calculus. 2 Lecture, 3 Lab.

440 Electricity and Magnetism (3)
Topics in electricity and magnetism using vector operators and differential equations. PREQ: 410 and 320 or MATH 320.

450 Quantum Mechanics (3)
Origins of quantum theory, the Schrodinger equation, one-dimensional potentials, linear harmonic oscillator, spherically symmetric potentials and the hydrogen atom. PREQ: 310. MATH 256.

454 (CHEM 454) Computer Interfacing (3)
Digital logic, computer design, and interfacing with laboratory instruments. PREQ: Permission of instructor. 2 Lecture, 3 Lab.

493 Topics in Physics (2-4)
PREQ: 350 or permission of department head.

495 Seminar in Physics (1)
S/U grading.

Graduate Courses
601 Topics in Physics Education I (3)
602 Topics in Physics Education II (3)

Political Science (PSC)

106 Grassroots Democracy: Citizenship Issues and Participation (3)
Analysis of current political institutions and their development within the cultural setting; applications and problems of citizenship in a functioning democracy. (P1)

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.

108 Global Issues (3)
How globalization as a cultural and economic process is transforming contemporary society. (P1)

190 Active Citizenship: Making a Difference in Your Community (3)
Examples of political activism and application of successful principles to enhance the quality of life in the WCU community. (P1)

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, healthcare, 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 decisionmaking 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, and self-government.

333 International Law (3)
Rules and practices regulating such matters as state territory and jurisdiction; treaties, nationality, and treatment of aliens; diplomatic and consular relations; warfare.

334 United States Foreign Policy (3)
Policies governing America's foreign relations; personnel and agencies responsible for policy implementation; role of the United States in world affairs since World War II.

335 Problems in World Politics (3)
Contemporary issues in international politics; international problem-solving methods and applications.

336 Mass Media and American Politics (3)
Examination and assessment of the power and influence of the mass media in American politics; emphasis on television.
345 Ancient and Medieval Political Thought (3)
Political philosophers from Plato to Thomas Aquinas; their ideas examined and related to current issues.

346 Modern Political Thought (3)
Political philosophers from Machiavelli to Mill; ideas providing the basis of modern political discussion and controversy examined.

347 American Social and Political Eras (3)
American social and political ideas from the Federalist Papers to the present.

348 Political Analysis (3)
Research methods and theoretical approaches for describing, explaining, and solving domestic and foreign policy problems. PREQ: 231 or permission of instructor.

351 Gender in Politics (3)
Gender roles examined in the context of national, state, and local government and politics.

389 Cooperative Education in Political Science (1 or 3, R15)
See Cooperative Education Program.

407 American Political Parties (3)
American political parties and their role in the government and politics of contemporary society; current national issues dividing the parties.

421 Political and Organizational Leadership (3)
Concepts and processes of leadership related to political and public organizations. PREQ: 6 hours in political science or permission of instructor.

436 Dynamics of World Order (3)
Alternative approaches to meeting social and political needs in a changing global environment; conditions and practices of interdependence.

480 Readings in Political Science (3)
PREQ: Departmental permission.

483 Internship in Political Science (3, 3, 3)
484 Work experience in a government or community agency applying academic studies to practice. S/U grading. PREQ: Permission of department head. 9 hours per week per course.

493 Contemporary Political Systems (3, R6)
Problems in the structure and functions of selected political systems reflected against their political cultures.

494 Seminar: American Political Systems (3)
Current issues in American government and politics.

Graduate Courses
507 American Political Parties (3)
521 Political and Organizational Leadership (3)
536 Dynamics of World Order (3)
580 Reading in Political Science (3)

593 Contemporary Political Systems (3, R6)
595 Seminar: The American Political System (3)
693 Topics in Political Science (1-6, R9)

Project Management (PM)

Graduate Courses
500 Tools for Financial Management (2)
654 Project Plan Analysis and Approval (6)
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.

150 General Psychology (3)
Overview of psychology and the scientific study of behavior; topics in social, abnormal, and developmental physiological psychology, and personality, sensation, perception, and learning. (P1)

190 Freshman Seminar (3)
Various special topics in psychology designed to encourage an in depth exploration of ideas and intellectual discussion on specific subjects. (P1)

251 Research Methods I: Statistics (3)
Statistical description and inference; central tendency and variability; correlational measure; parametric and nonparametric tests of significance. PREQ: An algebra course. COREQ: 252 for majors, minors, DFAs in psychology.

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; COREQ: 251 for majors, minors, DFAs in psychology.

260 Introduction to Gerontology (3)
Introduction to the field of gerontology.

280 Research in Psychology I (1-3, R3)
Introductory-level supervised bibliographical or research activity. S/U grading. PREQ: Permission of instructor.

310 Social Psychology (3)
Social influences on individual behavior, feelings, and thoughts; social-psychological approaches to problems of attitudes, conformity, leadership, and other group phenomena. PREQ: 250 or permission of instructor.

313 Organizational and Industrial Psychology (3)
Structure, methods, techniques, and application of psychological concepts to human problems of work in organizations. PREQ: 250 or permission of instructor.

320 Child and Adolescent Development (3)
Theories and principles of development from conception through adolescence. PREQ: EDCI 231 and admission to professional education sequence, or permission of the psychology department head. Field experience required.

321 Educational Psychology (3)
Application of psychological principles to teaching; cognition, learning, motivation, measurement, individual differences, and behavior management. PREQ: For education majors: EDCI 231, PSY 320 or PSY 322, admission to teacher education program. Field experience required.

322 Adolescent Development: Problems and Achievements (3)
Problems and achievements will cover theories and principles of adolescent development and problems specific to adolescence. PREQ: EDCI 231 and admission to professional education sequence or permission of the psychology department head; field experience required for education majors. Twenty-two hours per semester of supervision field.
325 Development: Early Adulthood through Maturity (3)
Physiological, cognitive, emotional, psychological, and social development after adolescence. PREQ: 250 or permission of instructor.

327 Psychology of Aging (3)
The process of aging during the later years; biological, psychological, and cognitive changes; theories of aging; counseling approaches. PREQ: 250 or permission of instructor.

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

333 Psychology of Sex Differences (3)
Development of sex differences and similarities in cognition, personality, and social behaviors; the role of physiological, social, and cultural factors. PREQ: 250 or permission of instructor.

360 Psychological Testing (3)
History, theory, and practice of measurement; test development and standardization; evaluation of intelligence, achievement, aptitude, and personality. PREQ: 250 or permission of instructor.

363 Behavioral Intervention (3)
A survey of behavioral theory covering both nonmediational and mediational approaches. Applications of behavioral theory to a variety of difficulties including school and clinical settings. PREQ: 250 or permission of instructor.

370 Psychology and Law (3)
Interrelationships between psychology and the legal system; identifying psycholegal issues in daily life; applying psychological theory and research to resolution of psycholegal dilemmas in real world. PREQ: Junior or senior status. (P1)

389 Cooperative Education in Psychology (1 or 3, R15)
See Cooperative Education Program.

393 Topics in Psychology (3, R9)
PREQ: 250 or permission of instructor.

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 Biological Psychology (3)
Physiological, genetic, and evolutionary bases of behavior. 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 disaster. Enrollment restricted to Emergency Medical Care majors.

**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.

**475 Applications in Psychology (3)**
Applications of psychology to B.S. level psychology jobs. Communication and listening skills, crisis management, milieu therapy. Professional roles and boundaries, ethics and legal issues, documentation. PREQ: 250, 251, 252, 470, either 363 or 430, plus one of the following: 320, 322, 325, or 327.

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

**483 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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<td>530</td>
<td>Personality (3)</td>
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Public Affairs (PA)

Graduate Courses

571 Government-Business Relations (3) 673 Public Policy Analysis (3)
572 Public Policy Formulation (3) 674 Statistics and Decision Making (3)
670 Public Affairs Administration (3) 675 Metropolitan Government (3)
671 Budgetary Processes (3) 676 Government and Press Relations (3)
672 Governmental Organizations (3) 685 Internship in Public Affairs (3)
779 Continuing Research—Non-Thesis Option (1, R10)

Reading (EDRD)

250 College Reading and Vocabulary (3)
Extending skills for college and recreational reading: emphasis on vocabulary and comprehension.

280 Speed Reading (3)
Techniques for improving reading speed, efficiency, vocabulary, and study habits: skimming, pacing, eye exercises, comprehension, and retention. 2 Lecture, 2 Lab.

323 Reading and Communication Skills in Content Areas (2)
Methods for teaching reading and other communication skills in content areas. PREQ: Admission to the professional education sequence.

334 Reading Instruction in the Elementary School (3)
Methods and materials for teaching reading in grades K-6; integration of communication skills in the total developmental reading program. PREQ: Admission to the professional sequence or permission of the instructor.

389 Cooperative Education in Reading (1 or 3, R15)
See Cooperative Education Program.

443 Middle Grades Reading (3)
Methods and materials for teaching reading and other communication skills in the middle grades; emphasis on organization for instruction, word identification and comparison skills, and reading in content materials.

453 High School and Adult Reading (4)
Methods and materials for teaching reading in high school and adult education. PREQ: 443. 3 Lecture, 2 Lab.

474 Practicum in Teaching Reading (3)
Assessment of reading problems and strategies for teaching reading. PREQ: 334 or 443 and EDEL 315. 2 Lecture, 2 Lab.

Graduate Courses

520 Phonics and Word Analysis (3) 676 Reading Workshop (3)
533 Reading and Communication Skills (3) 700 History and Psychology of Reading Instruction (3)
543 Middle Grades Reading (3) 710 Field Experience in Reading (3)
553 High School and Adult Reading (4) 720 Developing and Evaluating Reading Materials (3)
573 Practicum in Teaching Reading (3) 740 Reading Research Projects (3)
641 Seminar I: Investigation and Research in Teaching Reading (3) 750 Reading: Communication and Language Structure (3)
651 Clinical Procedures in Remedial Reading (3) 780 Independent Study in Reading Education (3)
661 Issues and Trends of Literacy Education (3) 795 Advanced Seminar in Reading (3)
672 Organization and Supervision of Reading Programs (3)
Recreational Therapy (RTH)

100 T'ai Chi Ch'uan (1)
First circle of Yang Family Long Form, T'ai Chi Ch'uan. The gentle art of moving meditation. 1 meeting.

340 Foundations of Recreational Therapy (3)
An investigation into the prescribed use of recreational activity as a clinical treatment modality for persons whose functional abilities are impaired.

350 Recreational Therapy and People with Physical Disabilities (3)
Addressing physical and psychological needs of individuals with physical disabilities through recreational therapy service in clinical and community settings.

352 Recreational Therapy Processes and Techniques (3)
Assessment, planning, implementation, and evaluation strategies attendant to recreational therapy service delivery. PREQ: 340.

360 Recreational Therapy Services for the Elderly (3)
Addressing the physical, psychological, and social needs of the elderly through recreational therapy.

389 Cooperative Education in Recreational Therapy (1 or 3, R15)
See Cooperative Education Program.

395 Pre-Internship Seminar (1)
Overview of NCTRC standards for professional certification, personal communication skills, practicum documentation requirements, internship site selection, and bloodborne pathogen training. PREQ: RTH major, junior standing.

396 Special Topics (1-3)

417 Administration of Recreational Therapy Services (3)
Contemporary recreational therapy program organizational principles and administrative issues. PREQ: 340.

450 Advanced Methods in Recreational Therapy (3)
Theoretical and practical examination of contemporary implementation procedures used in recreational therapy practice. Field trips required. PREQ: 340 or permission of instructor.

470 Adventure-Based Recreational Therapy (3)
A theoretical and practical investigation of structured outdoor experiences as vehicles for facilitating human growth and development. Field trips required. PREQ: PRM 321 or permission of instructor.

481 Independent Study (1-3)

484 Recreational Therapy Clinical Internship (6, 6)
Experience designed to integrate theory with practice; observation, fieldwork, and planning in a setting related to student's area of interest. PREQ: RTH major and permission of curriculum coordinator. 3 hours per credit hour.

Religion (REL)

105 Eastern Religious Traditions (3)
Historical, political, and theological contexts in which the major religious traditions of the East (Buddhism, Confucianism, Hinduism, Taoism) developed, with attention to distinctive ethical principles. (P6)
106 Western Religious Traditions (3)
Historical, political, and theological contexts in which the major religious traditions of the West (Judaism, Christianity, Islam) developed with attention to noted ethical principles. (P3)

210 Origins of Early Christian Traditions (3)
Study of the historical events, processes, and key persons involved in the emergence of the early Christian church, stressing philosophical-theological disputes forming early Christianity. (P3)

380 Independent Study (1-3, R6)

493 Topics in Religion (3, R6)

Science Education (SCI)

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)
594 Topics in Science Education (1-3, R6) 696 Seminar in Science Education (3)
611 Physical and Earth Science for Teachers (3)

Secondary Education and Special Subject Teaching (EDSE)

322 Principles and Methods of Teaching (3)
Methods, strategies, materials, and techniques of clinical and classroom teaching. PREQ: Admission to the teacher education program or permission of department head.

486 Field Experience in Teaching (3, R6)
Supervised experience for a second teaching certification or for an initial certification for individuals who are employed as full-time teachers. 9 hours per week.

487 Teaching Practicum in Clinical Settings (1, R3)
Experience using teaching techniques, materials, and methods for individualized instruction in job-related settings. S/U grading. PREQ: Junior standing and permission of 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.

495 Student Teaching Seminar (3)
Theory related to practice during student teaching. COREQ: 490, 492.

Social Work (SOCW)

151 Introduction to Social Work (3)
Social work as a profession: history; current practice settings; professional values and requirements.

251 Social Welfare Policy and Programs (3)
Historical development of social welfare policies; policy development and analysis; understanding the political process: the relationship to social work values.
253 **Foundations of Social Work (3)**
Basic knowledge of the profession; emphasis on communication and interviewing skills and the generalist approach. PREQ: 151.

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.

310 **Social Work With Groups (3)**
Knowledge of group dynamics, values, and methods with a focus on social work groups, including self help, task, and behavioral.

326 **Child Welfare (3)**
Child welfare services, public and private programs, children's rights, and issues affecting services for children and families.

327 **Social Work with Families (3)**
Concepts and skills for intervention with families; emphasis on use of family strengths and community resources in family problem solving.

329 **Social Work with Older Adults (3)**
Concepts and skills for effective practice with the aging: needs and strengths of older people: community resources: professional approaches to intervention.

330 **Social Work in the Health Field (3)**
Concepts and skills for social work practice in hospitals, out-patient clinics, and other health settings.

334 **Human Behavior and the Social Environment I (3)**
Focus on the interaction of people with their environments from infancy to young adulthood. A variety of theories and research about human growth and development are considered. PREQ: SOC 231. PSY 250. BIOL 134 (4 hours including lab). or permission of instructor.

335 **Social Work Research and Statistics (3)**
Research and statistical methods used in building social work practice knowledge. PREQ: 151.

354 **Human Behavior and the Social Environment II (3)**
Focus on the interaction of people and their environments from middle to later adulthood. A variety of theories and research about human growth and development are considered. PREQ: 334.

362 **Director Practice: Individuals and Families (3)**
Application of knowledge, values, and skills to social work practice: individuals, families, and groups. PREQ: 253 and admission to the social work program.

364 **Community Practice (3)**
Application of knowledge, values, and skills to social work practice: organizations and communities. PREQ: 253 and admission to the social work program.

373 **Contemporary Issues in Social Policy and Law (3)**
Current legal, political, economic, and social issues that influence the profession and practice of social work. PREQ: 251.

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 Diversity in Social Work (3)
Focus on diversity of culture, ethnicity, ability, sexual orientation, and gender; emphasis on the consequences of marginalizing members of oppressed groups.

481 Independent Study (1-3, R6)
PREQ: 253 or permission of department head.

486 Field Practicum (12)
Full-time supervised placement in selected human service agencies to integrate theory with practice and prepare for professional responsibility. PREQ: 364 and admission to the social work program. COREQ: 496. S/U Grading.

496 Field Practicum Seminar (3)
Integration of content with field practice. PREQ: Admission to the social work program. COREQ: 486.

Graduate Courses
593 Topics in Social Work (1-3, R6)

Sociology (SOC)

103 Human Society (3)
Analysis of human behavior in social and cultural contexts, emphasizing the sociological perspective. (P1)

190 Freshman Seminar: Social Institutions and Issues (3)
Exploration of various social institutions with a focus on the impact on human behavior using the seminar method of instruction. 3 Seminar. (P1)

231 Principles of Sociology (3)
Analysis of human social behavior; basic concepts in current theory and research.

235 Social Problems (3)
Problems of modern American society such as poverty, social conflict, corporate power and capitalism, alienation, and deviance.

240 Social Change (3)
Changes in human societies through cultural, economic, social, and political processes; introduction to development and social movements. PREQ: 231 or permission of instructor.

245 Social Inequality (3)
Social inequalities in wealth, income, prestige, and power; inequalities based on race, sex, and age. PREQ: 231 or permission of instructor.

248 Rural Society (3)
Application of sociological concepts to rural environments; characteristics of rural population, social structure, social institutions; social change, structure of agriculture, local government structure, and processes. PREQ: 231 or permission of instructor.

250 Deviant Social Behavior (3)
Causes and control of individual and group rebellion or retreat from prescribed social norms.

310 Demography (3)
Study of population characteristics, growth, and trends within a context of social, cultural, economic, and political systems. PREQ: 231 or permission of instructor.

326 Gender Roles and Society (3)
Gender roles examined in a sociological context emphasizing the relationship between these roles and the pre-existing sexual stratification system. PREQ: 231 and 245, or permission of instructor.
342 **The Individual in Society** (3)
Individual behavior in social context; social interaction. PREQ: 231 or permission of instructor.

355 **Criminology** (3)
Nature, extent, and causes of criminal behavior; role of police, courts, and corrections; prevention and control programs. PREQ: 231 and 250, or permission of instructor.

360 **Sociology of Conflict and Conflict Resolution** (3)
Analysis of sociological theories of social conflict, including Marx, Weber, Simmel, Coser, Dahrendorf, and Collins; case studies of conflict and conflict resolution stressing the applications of theory and research. PREQ: 231 or permission of instructor.

365 **Marriage and Family** (3)
Sociological approach to institutions of marriage and family, including mate selection, child rearing, divorce, aging, family violence. PREQ: 231.

371 **Society and the Environment** (3)
Analysis of the interaction between society and the physical environment, including population, pollution, resource depletion, and the effects on and responses of different social groups. PREQ: 231 or permission of instructor.

380 (ANTH 380) **Ethnographic Research Methods** (3)

385 **Methods of Social Research** (3)
The logic of scientific inquiry; techniques of research used in sociology, including sample surveys. PREQ: 231 or permission of instructor.

386 **Analysis of Social Data** (3)
Methods for presentation and analysis of social scientific data: descriptive and inferential techniques; measures of association. PREQ: 385.

389 **Cooperative Education in Sociology** (1 or 3, R15)
PREQ: 231 or permission of instructor. See Cooperative Education Program.

391 **Sociological Theory** (3)
The development of sociological theory; issues in classical and contemporary social thought. PREQ: 231 or permission of instructor.

414 (ANTH 414) **Minority Groups** (3)
Relations between dominant and subordinate races and ethnic groups; historical and comparative aspects; African Americans, Chicanos, and Indians. PREQ: 231 and 245; or ANTH 260; or permission of instructor.

418 **Women and Development** (3)
A cross-cultural overview of the impact of modernization on women’s status and women’s roles in the development process. PREQ: 231 and 326, or permission of instructor.

420 **Women of Color** (3)
Life experiences and achievements of women of color in the United States are reviewed. Topics covered include activism, employment, education, health, family life, religion, and the media. PREQ: 231 and 326, or permission of instructor.

423 (SM 423) **Sociology of Sport** (3)
Social issues in sport examined from historical, cross-cultural, and sociological perspectives with attention to impact of race, gender, and social class on participation. PREQ: Junior standing; SM 260 for SM majors.

428 **Sociology of Institutions** (3)
Theoretical explanations of institutions including education, factories, retail, health care, government, media, and politics, and their influence on society. PREQ: 231 or permission of instructor.
432 **Community Organization and Development (3)**
Community organization viewed as a process of bringing about desirable changes in community life. Community structure, needs assessment, and planning for change. PREQ: 231 and 240, or permission of instructor.

434 **Regional and Societal Development (3)**
Social dimensions of economic growth and development with particular emphasis on Third-World countries; alternative definitions of development, and changing national, regional, and institutional structures. PREQ: 231 and 240, or permission of instructor.

448 **Social Movements (3)**
Social movements and collective behavior; mass efforts to promote or resist social change; comparison of riots, reform movements, and revolutions. PREQ: 231 and 240, or permission of instructor.

455 **Family Violence (3)**
Sociological approach to family violence, including child, spouse, and elder abuse; legal and social responses to each. PREQ: 231.

480 **Independent Study in Sociology (1-3, R6)**
PREQ: 231 or permission of instructor.

483 **Internship in Sociology (3, 3, 3)**
Application of theory and knowledge to work experience in a cooperating agency. S/U grading. 3 hours credit applicable to sociology major or minor. 9 hours per week per course. PREQ: 231 or permission of instructor.

494 **Topics in Sociology (1-3, R9)**
PREQ: Permission of instructor.

**Graduate Courses**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>514</td>
<td>ANTH 514 Minority Groups (3)</td>
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<tr>
<td>523</td>
<td>Sociology of Sport (3)</td>
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<tr>
<td>532</td>
<td>Community Organization and Development (3)</td>
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<td>534</td>
<td>Regional and Societal Development (3)</td>
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<td>554</td>
<td>Sociology of Conflict and Conflict Resolution (3)</td>
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<td>580</td>
<td>Independent Study in Sociology (1-2, R6)</td>
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<td>Internship in Sociology (3)</td>
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<td>Topics in Sociology (3, R6)</td>
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<tr>
<td>801</td>
<td>Rural Society (3)</td>
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</tbody>
</table>

**Spanish (SPAN)**

101 **Experiencing Spanish and the Spanish-Speaking World (3)**
Students develop basic knowledge about the Spanish-Speaking world and through that content acquire basic functional proficiency in Spanish. (P6)

102 **Experiencing Spanish and the Spanish-Speaking World II (3)**
Students build on their basic functional proficiency in Spanish as they build on their cultural and real-world knowledge of the Spanish-Speaking world. PREQ: Some competency in Spanish or consultation with instructor. (P6)

105 **The Spanish-Speaking World (3)**
Study of Spanish culture and its relationship to the cultures of countries and regions where Spanish is spoken.

110 **Experiencing Spanish and the Spanish-Speaking World Accelerated (6)**
Students develop knowledge about the Spanish-Speaking world, and through that content, acquire basic functional proficiency in Spanish. Three credit hours only applicable to Liberal Studies. 4 Lecture, 5 Lab. (P6)

190 **Celluloid and Paper Dreams: Hispanic Literature and Film (3)**
Hispanic culture as expressed in film and literature. (P6)
231 Intermediate Spanish I (3)
Continued development of listening, speaking, reading, and writing: continued study of the culture of the Hispanic world. PREQ: 132 or equivalent or placement.

232 Intermediate Spanish II (3)
Continued development of listening, speaking, reading, and writing: continued study of the culture of the Hispanic world. PREQ: 231 or equivalent or placement.

240 Accelerated Second-Year Spanish (6)
Continuation of 110; increasing emphasis on reading, writing, and the study of culture of the Hispanic world. PREQ: Permission of instructor. 4 Lecture, 5 Lab.

301 Topics of the Hispanic World I (3)
Examination of topics of interest in the Hispanic world: enhancement of communicative abilities, to include student projects. PREQ: 232 or 240 or equivalent or placement, or permission of department head.

302 Topics of the Hispanic World II (3)
Examination of topics of interest in the Hispanic world: enhancement of communicative abilities, to include student projects. PREQ: 232 or 240 or equivalent, or placement or permission of department head.

303 Applied Spanish Conversation (3, R6)
Apprenticeship in the intensive language program. Does not count toward major, minor, or DFA in foreign languages. PREQ: 232 or 240, sophomore standing, selection by faculty. 10 Lab.

310 Introduction to Spanish Prose and Poetry (3)
Introduction to Spanish literary texts: reading and analysis of literary works. 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 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 Spanish-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.

330 Masterpieces of Spanish Peninsular Literature (3)
The literary periods and movements, authors, and selected representative works of Spain. PREQ: 232 or 240. PREQ or COREQ: 301 and 302, or permission of department head.

333 Masterpieces of Spanish-American Literature (3)
The literary periods and movements, authors, and selected representative works of Spanish America. PREQ: 232 or 240. PREQ or COREQ: 301 and 302, or permission of department head.

389 Cooperative Education in Spanish (1 or 3, R15)
PREQ: 301, 302. See Cooperative Education Program.

393 Special Topics in Spanish (1-3, R6)
PREQ: 232 or 240.

401 Contrastive Features of Spanish and English (3)
Study of similarities and differences of the two languages regarding phonology,
morphology, and syntax and issues concerning L2 acquisition. PREQ: 301 and 302, or permission of instructor.

431 Studies in Spanish Peninsular 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 Spanish-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)
In-depth study of the structures and usage of the Spanish language. PREQ: 301 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: 302 or permission of department head.

481 Independent Studies in Spanish (1-3, R6)
PREQ: 301 and 302, or permission of department head.

Special Education (SPED)

200 Survey of Exceptionalities (3)
Historical, philosophical, and legal basis of special education; characteristics and related educational needs of children with disabilities, models of delivery of services and trends in special education for children birth to five years old. PREQ: BK 260 and admission to professional education sequence.

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.

313 Assessment of the Young Child (3)
Assessment activities including screening, diagnostic assessment, and educational assessment for young children, with emphasis on connecting observation, assessment, planning, and evaluation. PREQ: 240. 2 Lecture, 3 Lab.

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.

345 Adaptations and Modifications for Young Children with Disabilities (3)
Methods and materials for supporting young children with disabilities in their naturally occurring environments. PREQ: 240. 2 Lecture, 3 Lab.
366 Infant Curriculum (3)
Scope and sequence of developmental curricula in all areas of infant development and learning; methods of providing individual and group intervention through a variety of formats. 2 Lecture, 3 Lab. PREQ: CDFR 360.

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

401 Introduction to Learning Disabilities (3)
Historical concepts and theories of learning disabilities; educational characteristics of learning-disabled children; overview of remedial programs. PREQ: 240.

405 Introduction to Mental Retardation (3)
Multidisciplinary approach to mental retardation; mental performance and functioning related to human development. PREQ: 240 or permission of department head.

411 Collaborative Planning (3)
Development, implementation, monitoring, and evaluation of care plans (IFSP and IEP); knowledge of state and federal legislation agency services and programs affecting young children with disabilities and their families.

412 Interagency Practicum (2)
Professional roles and functions of early childhood intervention teams, transdisciplinary team process, structures of interagency collaboration. PREQ: 200, admission to professional education sequence.

413 Teaching Adolescents with Learning Problems (3)
Survey and evaluation of curricular models, diagnosis, developing instructional strategies, establishing goals and objectives. PREQ: 312, admission to professional-education sequence, senior status.

417 Managing Classrooms for Exceptional Children (3)
Principles and techniques of classroom and behavior management. PREQ: 240 and admission to the teacher education program.

432 The Physically Handicapped Child (3)
Social, psychological, and medical problems of children with physical disabilities.

450 Individual Educational Plans for Students with Disabilities (3)
Development of Individual Educational Plans (IEPs); formal and informal assessment and instructional planning; study of federal and state regulations. PREQ: 240 and admission to the professional education sequence.

467 Home-Based Intervention (3)
Methods and materials for providing home-based intervention; working collaboratively with families and other service providers to promote effective service delivery. PREQ: SPED 240; CDFR 363; or permission of instructor. 2 Lecture, 3 Lab.

470 (BK, EDEL) Early Childhood Curriculum (3)
Materials, environments, and interactions for two to five year olds in all curricular areas, including thinking and social problem solving for typical and atypical children. 2 Lecture, 3 Lab. PREQ: 366.

483 (BK) Internship (4, R16)
Observing, planning, teaching, and evaluating young children in typical and atypical settings. COREQ: BK 496. 5 days/week, full-time.

484 Special Education Internship I (1-3)
Three hours per credit hour. PREQ: Written application, permission of instructor and adviser. 3-9 field experience.
485 Field Experience in Teaching (3, R6)
Supervised experience for a second teaching certificate or for an initial certification for individuals who are employed as full-time teachers. 9 hours per week.

486 Practicum in Mental Retardation (1-3)
3 hours per credit hour. PREQ: Written application; permission of instructor and adviser.

487 Practicum in Learning Disabilities (1-3)
3 hours per credit hour. PREQ: Written application; permission of instructor and adviser.

490 Supervised Student Teaching (9)
A full-time teaching experience. COREQ: 495.

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.

496 (BK, EDEL) Internship Seminar (1, R4)
The interrelationships of theory and practice in the context of experience. COREQ: BK 491.

Graduate Courses

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>501</td>
<td>Introduction to Learning Disabilities</td>
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<td>502</td>
<td>Current Issues in Special Education</td>
<td>3</td>
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<td>504</td>
<td>Educational Programs for Students with Behavioral Disorders</td>
<td>3</td>
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<td>505</td>
<td>Teaching Students with Learning Disabilities</td>
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<td>528</td>
<td>Programs and Services for Individuals with Severe/Profound Disabilities</td>
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<td>Educational Programs for Students with Mental Retardation</td>
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<td>Teaching Individuals with Moderate to Severe Disabilities</td>
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<td>The Physically Handicapped Child</td>
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<td>Methods for Teaching Students with Severe/Profound Disabilities</td>
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<td>Collaboration with Families and Professionals</td>
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<td>555</td>
<td>Creating Positive Classrooms for Students with Disabilities</td>
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<td>566</td>
<td>Approaches and Practices for Teaching Students with Disabilities</td>
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<td>567</td>
<td>Reading, Writing, and Mathematics Curriculum for Students with Disabilities</td>
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<td>Topics in Special Education (1-3, R6)</td>
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<td>600</td>
<td>Creative Thinking and Problem Solving</td>
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<td>620</td>
<td>Education in a Diverse Society</td>
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<td>Teaching Students with Mild to Moderate Mental Retardation</td>
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<td>Appraisal of Exceptional Children</td>
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<td>779</td>
<td>Continuing Research—Non-Thesis Option (1, R10)</td>
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Sport Management (SM)

213 (PE 213) Introduction to Athletic Training (3)
Prevention of injuries, bandaging, and the treatment of basic injuries in varsity athletics.

260 Introduction to Sport Management (3)
Career opportunities, competencies, and management skills; overview of management functions and ethics; history of sport management.

313 (PE 313) Psychological Aspects of Sport (3)
The psychological aspects of sport and coaching methods. PREQ: 260; junior standing.

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.

330 (PRM 330) Aquatic Recreation Management (3)
Organization, programming, facility design, and maintenance in various aquatic recreational environments. Course may lead to Certified Pool Operator certification.
380 Independent Study (1-3, R3)
Atopic in sport management agreed upon by student and instructor. PREQ: ENGL 102; permission of department head.

383 Apprenticeship (1, R3)
Apprenticeship to develop necessary skills before entering the required internship. PREQ: Permission of department head. 3 Lab.

389 Cooperative Education in Sport Management (1 or 3, R15)
PREQ: Permission of instructor. See Cooperative Education Program.

413 Athletic Injury Assessment (3)
A concentrated study on athletic injury assessment and rehabilitation. PREQ: PE 213.

415 Legal Issues for the Sport Practitioner (3)
Study of legal issues related to sport delivery systems, physical education, and recreation settings. Legal terminology, risk management, case law, and current issues are analyzed. PREQ: Senior standing or permission of instructor; SM 260 for SM majors.

423 (SOC 423) Sociology of Sport (3)
Social issues in sport examined from historical, cross-cultural, and sociological perspectives with attention to impact of race, gender, and social class on participation. PREQ: Junior standing; SM 260 for SM majors.

435 Event and Facility Management and Marketing (3)
Study of current trends and the management and marketing of sporting events and sport facilities. Basic terminology and building designs of sport facilities are also discussed. PREQ: Junior standing.

460 Financial Aspects of Sport (3)
Financial considerations important to sport: budgeting, fund raising, and economic impact of sport events; historical aspects. PREQ: SM 260 for SM majors only; ACCT 161 or 251; MKT 301; ECON 231; and junior standing.

461 Sport Marketing (3)
Historical study of sport marketing: techniques in developing sport sponsorship proposals and effective sport promotions; sport marketing applications. PREQ: SM 260 for sport management majors; junior standing; MKT 301.

484 Internship in Sport Management (6, 6)
Experiences relating theory to practice in a specific area of sport management. PREQ: Permission of program coordinator or completion of all required coursework in the major; 2.3 cumulative grade point average, "C" or better in all SM prefix courses.

495 Sport Management Seminar (2)
Analysis of management, organizational structure, and strategic planning in sport organizations; current issues in sport management. PREQ: SM major; SM 260; senior standing.

University Studies-Interdisciplinary (USI)

101 Honors Forum (1)
Interdisciplinary introduction to the academic milieu—scholarly controversy, the ferment of ideas, study, and research.

130 Academic and Career Planning (1)
Introduction to the university and to higher education. Discussion of issues involved
in the transition from high school to college. Emphasis on academic and career planning and personal development.

393 **Topics in International Studies I** (3, R6)
Interdisciplinary introduction to the civilization and culture of a particular country or region and its relationship with the United States.

394 **Topics in Cherokee Studies** (3, R9)
Selected individual or interdisciplinary aspects of Cherokee culture and society offered by various departments.

395 **Topics in International Studies II** (1-3, R4)
Interdisciplinary study of the civilization, environment, and culture of a country or region and its relationships with the United States and the world community.

396 **Honors Colloquium** (3, R6)
Interdisciplinary discussion of a topic of special concern selected in consultation with honors students. PREQ: Junior standing, 3.0 GPA.

497 **Honors Seminar** (3, R6)
Interdisciplinary seminar featuring student research directed toward a topic selected in consultation with honors students. PREQ: Junior standing with 3.0 GPA.

**Graduate Courses**
693 **Topics in Graduate Education** (1-3, R6)
History of The University of North Carolina

In North Carolina, all the public educational institutions that grant baccalaureate degrees are part of The University of North Carolina. Western Carolina University is one of the sixteen constituent institutions of the multi-campus state university.

The University of North Carolina, chartered by the North Carolina 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 North Carolina 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 North Carolina 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 North Carolina 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 sixteen-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; and in 1996, Pembroke State University was renamed The University of North Carolina at Pembroke through legislative action.)

The UNC Board of Governors is the policy-making body legally charged with "the general determination, control, supervision, management, and governance of all affairs of the constituent institutions." It elects the president, who administers the university. The thirty-two voting members of the Board of Governors are elected by the North Carolina 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 sixteen 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 North Carolina 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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Western Carolina University was founded in August 1889 as a semipublic school. Chartered as Cullowhee High School in 1891, it served the Cullowhee community and boarding students from neighboring counties and other states.

For Professor Robert Lee Madison, the institution’s founder, the aim of the school was teacher training. In 1893, with the first state appropriation of $1,500, a normal department was established. In 1905, the institution became Cullowhee Normal and Industrial School, a title it held for twenty years.

Beginning about 1912, the status of the school was gradually raised to that of a two-year normal school or junior college. With state support increasing and work at the secondary level discontinued, the name of the school was changed in 1925 to Cullowhee State Normal School.

In 1929, under a new charter authorizing the school to extend its work to the four-year level, the name Western Carolina Teachers College was adopted. Modifications in function and rapid growth climaxed in 1951 with the addition of the postgraduate year to the curriculum, and the granting of the Master of Arts in Education degree was authorized. Demands in the liberal arts, and for programs in other areas of learning, led to an expansion of its offerings and to a further change, in 1953, to the name Western Carolina College.

In 1967, the institution was designated a regional university by the North Carolina General Assembly and the name of the institution was changed to Western Carolina University.

In 1971, the state legislature reorganized higher education in North Carolina, and on July 1, 1972, Western Carolina University became a constituent institution of The University of North Carolina.

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2001-2002

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Pat Ryan ......................................................... Assistant Football Coach
TBA ................................................................. Assistant Football Coach and Athletics Equipment Manager
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Michael Gunthrop, B.S. ..................................... Assistant Football Coach
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Danny Williamson, M.A.Ed. .......................... Head Men’s and Women’s Track and Cross Country Coach
David T. Price, Jr., B.S. .................................. Assistant Men’s and Women’s Track and Cross Country Coach
Carolyn Michelle Hansen, M.S. ...................... Head Women’s Volleyball Coach
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TBA ............................................................... Men’s Sports Information Director
Jan Stubbs, B.S. .............................................. Women’s Tennis Coach
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Steve Lott ...................................................................................................... Women’s Golf Coach
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